

© THE QUEEN'S PRINTER FOR
ONTARIO
1999

REPRODUCED WITH PERMISSION

L'IMPRIMEUR DE LA REINE POUR
L'ONTARIO

REPRODUIT AVEC PERMISSION

micromedia
a division of IHS Canada

20 Victoria Street
Toronto, Ontario M5C 2N8
Tel: (416) 362-5211
Toll free: 1-800-387-2689
Fax: (416) 362-6161
Email: info@micromedia.on.ca



Air Quality in Ontario

**APPENDIX
1997**

Air Quality in Ontario 1997

Appendix

November 1999

Cette publication technique
n'est disponible qu'en anglais.

Copyright: Queen's Printer for Ontario, 1999
This publication may be reproduced for non-commercial
purposes with appropriate attribution.



ISBN 0-7778-9230-8

PIBS 3909E-01

TABLE OF CONTENTS

PAGE NO.

INTRODUCTION	i
APPENDIX A	Monitoring Network Operations
APPENDIX B	Network Descriptive Tables and Annual Statistics
TABLE 1	Ontario Continuous Air Monitoring Network for 1997
TABLE 2	Ontario Non Continuous Air Monitoring Network for 1997
TABLE 3	Ontario Inhalable Particle (PM ₁₀) Network for 1997
TABLE 4	Ontario Meteorological Network for 1997
TABLE 5	Sulphur Dioxide (SO ₂) Statistics (1997)
TABLE 6	Suspended Particles (SP) Statistics (1997)
TABLE 7	Total Reduced Sulphur (TRS) Statistics (1997)
TABLE 8	Carbon Monoxide (CO) Statistics (1997)
TABLE 9	Nitrogen Dioxide (NO ₂) Statistics (1997)
TABLE 10	Nitric Oxide (NO) Statistics (1997)
TABLE 11	Total Nitrogen Oxides (NO _x) Statistics (1997)
TABLE 12	Ozone (O ₃) Statistics (1997)
TABLE 13	Real-Time PM ₁₀ Statistics (1997)
TABLE 14	Real-Time PM ₂₅ Statistics (1997)
TABLE 15	Total Suspended Particles (TSP) Statistics (1997)
TABLE 16	Lead (Pb) in TSP Statistics (1997)
TABLE 17	Iron (Fe) in TSP Statistics (1997)
TABLE 18	Manganese (Mn) in TSP Statistics (1997)
TABLE 19	Nickel (Ni) in TSP Statistics (1997)
TABLE 20	Chromium (Cr) in TSP Statistics (1997)
TABLE 21	Vanadium (V) in TSP Statistics (1997)
TABLE 22	Copper (Cu) in TSP Statistics (1997)
TABLE 23	Nitrate (NO ₃ ⁻) in TSP Statistics (1997)
TABLE 24	Sulphate (SO ₄ ²⁻) in TSP Statistics (1997)
TABLE 25	Inhalable Particles (PM ₁₀) 24-Hour Statistics (1997)
TABLE 26	Copper (Cu) in PM ₁₀ Statistics (1997)
TABLE 27	Iron in (Fe) in PM ₁₀ Statistics (1997)
TABLE 28	Manganese (Mn) in PM ₁₀ Statistics (1997)
TABLE 29	Sulphate (SO ₄ ²⁻) in PM ₁₀ Statistics (1997)
TABLE 30	10-Year Trend for SO ₂
TABLE 31	10-Year Trend for SP (as measured by COH)
TABLE 32	10-Year Trend for TRS
TABLE 33	10-Year Trend for CO
TABLE 34	10-Year Trend for NO ₂

TABLE OF CONTENTS (Con'd)**PAGE NO.**

TABLE 35	10-Year Trend for NO	37
TABLE 36	10-Year Trend for NO _x	38
TABLE 37	10-Year Trend for O ₃	39
TABLE 38	Stations Used in Gaseous Trends	40
TABLE 39	VOC Annual Statistics at Egbert (1997)	41
TABLE 40	VOC Annual Statistics at Etobicoke South (1997)	43
TABLE 41	VOC Annual Statistics at Hamilton Downtown (1997)	47
TABLE 42	VOC Annual Statistics at Ottawa (1997)	51
TABLE 43	VOC Annual Statistics at Point Petre (1997)	55
TABLE 44	VOC Annual Statistics at Sarnia (1997)	58
TABLE 45	VOC Annual Statistics at Simcoe (1997)	61
TABLE 46	VOC Annual Statistics at Stouffville (1997)	64
MAP 1	Location of Provincial Regional Boundaries (1997)	67
MAP 2	Location of Provincial Continuous SO ₂ Air Monitoring Stations (1997)	68
MAP 3	Location of Provincial Continuous SP(as COH) Air Monitoring Stations (1997)	69
MAP 4	Location of Provincial Continuous TRS Air Monitoring Stations (1997)	70
MAP 5	Location of Provincial Continuous CO Air Monitoring Stations (1997)	71
MAP 6	Location of Provincial Continuous NO ₂ Air Monitoring Stations (1997)	72
MAP 7	Location of Provincial Continuous O ₃ Air Monitoring Stations (1997)	73
MAP 8	Location of Provincial Continuous PM _{10/2.5} Air Monitoring Stations (1997) ...	74
MAP 9	Location of Provincial Continuous AQI Air Monitoring Stations (1997)	75
MAP 10	Location of Provincial 24-Hour TSP Air Monitoring Stations (1997)	76
MAP 11	Location of Provincial 24-Hour PM ₁₀ Air Monitoring Stations (1997)	77
MAP 12	Location of Provincial Continuous MET Air Monitoring Stations (1997)	78

INTRODUCTION

This appendix is intended for use in conjunction with the annual report Air Quality in Ontario 1997. Appendix A briefly describes the provincial air monitoring network, the quality assurance and quality control procedures and data base. Appendix B provides a series of tables showing the station locations as well as a listing of the summary statistics including, means, maxima, percentile values and the number of exceedances of the Ontario criteria for each pollutant.

APPENDIX A - Monitoring Network Operations

Network Description

In 1971, the provincial air monitoring network consisted of 254 instruments: 166 continuous analyzers at 76 monitoring sites and 88 sites with high-volume samplers. By 1980, the provincial network had reached its maximum size at 450 instruments of which 268 were continuous analyzers at 106 sites and 182 high-volume samplers. During 1997, the network consisted of 224 continuous monitoring instruments at 74 sites, 53 high-volume samplers, 24 daily PM₁₀ samplers and 22 real-time PM_{10/2.5} monitors.

Ministry regional boundaries along with the Regional, area and district head office locations are shown in Map 1.

More than 60% of all air monitoring by the ministry is source-specific and is the principal responsibility of operations division. For the most part, the operation of the monitoring stations and the collection of air samples is conducted by the regional staff. Environmental Monitoring and Reporting Branch operates the Greater Toronto Area (ambient stations) network and the mobile air monitoring units. The monitoring networks are classified by their functions: continuous air monitoring stations; non-continuous sampling sites; the toxic networks; and mobile air monitoring.

Quality Assurance and Quality Control

In 1997, each region had an atmospheric and terrestrial effects unit responsible for the day-to-day air monitoring and maintenance.

Each day, the instruments are checked through a computerized telephone link by technicians confirming the automatic zero and span values (that is, a known value for a particular gas).

Regional technicians inspect and maintain the monitoring equipment and stations continually. If an instrument undergoes major servicing, the instrumentation and quality assurance unit will re-calibrate it.

Portable calibration equipment is used by regional staff. This equipment itself is re-calibrated at least twice per year.

There are other monitoring programs, such as those operated by the Lambton Industrial Society, Environment Canada and Ontario Hydro, which the ministry either audits or conducts comparisons with. It uses data from these services to judge provincial air quality.

The environmental monitoring and reporting branch operates a laboratory with gas reference standards that adhere to those of the U.S. National Institute of Standards and Technology (NIST) as well as to the pollution measurement division of Environment Canada.

Performance audits are conducted on the sulphur dioxide, nitrogen oxides/nitrogen dioxide, ozone and total reduced sulphur (as hydrogen sulphide) monitors approximately three times per year and on

carbon monoxide monitors once per year.

Chemical analyses performed by the laboratory services branch are also subject to quality assurance and control.

The ambient air quality monitoring network undergoes constant maintenance to ensure a high standard of quality control.

Continuous real-time and particulate data are reviewed, assessed and validated constantly by regional staff and staff of the environmental monitoring and reporting branch.

Actions are taken immediately to correct anything that may affect the validity of the data.

These measures ensure that ambient air monitoring data are valid, complete, comparable, representative and accurate.

In 1997, continuous air monitoring instruments were given 622 performance audits. Approximately 86 per cent of the audits were found to be in the acceptable performance criterion, i.e. measured values were within 10 per cent of the standard. For the remaining 14 per cent which fell outside the 10 per cent range, station log records and backup charts were consulted to adjust the data to reflect true ambient concentrations. As a result, the network for 1997 had 94.1 per cent valid data out of approximately 4 million data points.

Data Base

The ambient air quality data used in this report are stored in the ministry's air quality information system (AQUIS). Approximately 4 million air pollution measurements are added to AQUIS yearly, with the vast majority representing Ontario's more heavily populated urban areas.

A statistical pattern test is used to identify data anomalies, such as unusual pollutant concentrations. Each pollutant has a predetermined pollutant concentration range based on historical data. Values outside this range are flagged for further investigation.

AQUIS data are divided into two major groupings: continuous (1-hour) measurements and daily (24-hour) measurements.

Hourly data are obtained from automated ambient air monitoring instruments which operate continuously. These produce an average measurement each hour for a possible total of 8760 measurements in a year.

SO₂, SP (as COH), CO, NO_x/NO/NO₂, O₃ and TRS compounds are all measured hourly. A valid annual mean requires at least 5840 hourly readings or 67 per cent valid data. Typically the network yields approximately 95 per cent valid data.

The instruments which provide daily measurements from a 24-hour sampling period are usually operated on one, three or six-day sampling cycles. They measure TSP, PM₁₀, lead, various trace metals, sulphate and nitrate.

For daily data, a valid annual mean requires at least two thirds of the total number of possible samples, i.e., a station operating on a 6-day sampling schedule would require at least 40 out of a possible 61 samples.

To be included in the 10-year trend analysis, a site must have valid annual means for at least 8 out of the 10 years 1988-1997. To be included in long term analysis a site must have a valid annual for at least 21 out of the 27-years, 1971-1997.

APPENDIX B - Network Descriptive Tables and Annual Statistics

The entire continuous (hourly) network is summarized in Table A1 and Maps 2-9. The table gives station name, numerical identifier, and pollutants measured. The numerical identifier is the station (ID) number, the first digit of which identifies the geographic region in which the station is located.

The column headings for the continuous pollutants are as follows:

SO ₂	(sulphur dioxide)
SP	(suspended particles as measured by COH)
TRS	(total reduced sulphur compounds)
CO	(carbon monoxide)
NO ₂	(nitrogen dioxide)
NO _x	(oxides of nitrogen)
NO	(nitric oxide)
O ₃	(ozone)
PM ₁₀ /PM _{2.5}	(real-time inhalable/respirable particles)
API	(air pollution index)
AQI	(air quality index)

The particulate (daily) network is summarized in Table A2 and Map 10. The table gives station name, numerical identifier, and pollutants measured. Numerals indicate the monitoring cycle frequency in days. Some additional codes are defined in the key at the top of the table. The column headings for the noncontinuous pollutants are as follows:

TSP	(total suspended particles)
Cu	(copper in TSP)
Cr	(chromium in TSP)
Fe	(iron in TSP)
Mn	(manganese in TSP)
Ni	(nickel in TSP)
Pb	(lead in TSP)
V	(vanadium in TSP)
NO ₃ ⁻	(nitrate in TSP)
SO ₄ ²⁻	(sulphate in TSP)

The inhalable particle (PM₁₀) network is summarized in Table A3 and Map 11. This table gives the station location, parameters measured and frequency of sampling.

The meteorological network is summarized in Table A-4 and Map 12. This table gives station name, numerical identifier, meteorological parameters measured and the height of the measurements.

The 1997 statistical data for the various pollutants are provided in Tables A5 through A28. The 10-year trends are presented in tables A-30 to A-38. The stations used in the 10-year trends are listed in Table A39.

ABBREVIATIONS

ID	- five digit provincial station identification number
TYP	- survey type
YR	- year monitoring began
LAT	- station latitude in degrees/minutes
LONG	- station longitude in degrees/minutes
ELEV	- elevation of sampling inlet (metres above ground)
INS	- insufficient data to compute relevant statistics

TABLE 1 ONTARIO CONTINUOUS AIR MONITORING NETWORK FOR 1997

T - TELEMETRY YR - YEAR STATION BEGAN ID - STATION IDENTIFICATION NUMBER TYP - A AMBIENT SURVEY, I SOURCE SPECIFIC SURVEY LAT - LATITUDE(DEGREES MINUTES) ELEV - AIR INTAKE HEIGHT ABOVE GROUND LONG - LONGITUDE(DEGREES MINUTES)																
CITY	STATION NAME	ID	TYP	YR	LAT	LONG	ELEV (M)	S02	COH	CO	O3	NO2/NOX NO	PM10/2.5	TBS	API	AQI
WINDSOR	WRIGHT/WATER ST	12007	I	84	42 17	83 06	4	T	T	T	T	T	T	T	T	T
	467 UNIVERSITY AV W	12008	A	69	42 19	83 03	8	T	T	T	T	T	T	T	T	T
	COLLEGE/SOUTH ST	12016	A	75	42 18	83 04	4	T	T	T	T	T	T	T	T	T
	MOE WATER PUMP STN, MIDDLE RD	13021	A	77	42 15	82 13	4	T	T	T	T	T	T	T	T	T
MERLIN	HWY40 (OPP LAMBTON GS)	14016	I	69	42 48	82 29	4	T	T	T	T	T	T	T	T	T
COURTIGHT	CENTENNIAL PK FRONT ST/CH TRACKS	14064	A	76	42 59	82 24	3	T	T	T	T	T	T	T	T	T
	CONCESSION RD 26	14118	A	77	42 56	82 14	4	T	T	T	T	T	T	T	T	T
	LONGWOODS CONSERVATION AUTIL	15009	A	83	42 53	81 29	4	T	T	T	T	T	T	T	T	T
	PUC BUILDING	15013	A	83	43 10	81 41	5	T	T	T	T	T	T	T	T	T
GRAND BEND	POINT BLAKE (CONSERVATION AREA)	15020	A	91	43 20	81 44	4	T	T	T	T	T	T	T	T	T
	900 HIGHBURY AVE	15025	A	95	42 59	81 13	4	T	T	T	T	T	T	T	T	T
	CONCESSION RD 21 LOT A	18007	A	79	44 18	81 35	4	T	T	T	T	T	T	T	T	T
	EXPERIMENTAL FARM	22071	A	75	42 51	80 16	4	T	T	T	T	T	T	T	T	T
NANTICOKE	CHEAPSIDE RD/3 KM S OF HWY 3)	22086	I	77	42 52	80 00	5	T	T	T	T	T	T	T	T	T
	PROVINCIAL PARK	22901	A	79	42 35	80 23	4	T	T	T	T	T	T	T	T	T
	WALPOLE S PS, SANDUSK RD	22904	I	79	42 50	80 02	4	T	T	T	T	T	T	T	T	T
	RAINHAM RD (NEAR STELCO GATE)	22907	I	84	42 49	80 05	4	T	T	T	T	T	T	T	T	T
KITCHENER	WEST AVERHORNWOOD	26040	A	90	43 26	80 30	5	T	T	T	T	T	T	T	T	T
	ARGYLE CRESCENT	27067	A	87	43 10	79 14	4	T	T	T	T	T	T	T	T	T
	ELGIN/KELLY	29000	A	87	43 15	79 52	4	T	T	T	T	T	T	T	T	T
	BARTON/WENTWORTH	29025	I	69	43 16	79 51	4	T	T	T	T	T	T	T	T	T
HAMILTON	467 BEACH BLVD	29102	I	84	43 17	79 47	4	T	T	T	T	T	T	T	T	T
	VICKERS RDEAST 8TH ST	29114	A	85	43 14	79 52	3	T	T	T	T	T	T	T	T	T
	MAIN ST/W HWY 403	29118	A	85	43 15	79 54	3	T	T	T	T	T	T	T	T	T
	J1 CASE	29531	I	96	43 29	79 55	3	T	T	T	T	T	T	T	T	T
HAMILTON	PIER 25/BEACH STRIP	29547	I	92	43 27	79 78	4	T	T	T	T	T	T	T	T	T
	HOMESIDE	29561	I	95	43 21	79 66	4	T	T	T	T	T	T	T	T	T
	CN TOWER	31190	A	89	43 35	79 23	444	T	T	T	T	T	T	T	T	T
	QUEEN/UNIVERSITY OSOODE	31303	A	90	43 39	79 23	3	T	T	T	T	T	T	T	T	T
TORONTO	LAWRENCE/KENNEDY	31003	A	70	43 45	79 16	4	T	T	T	T	T	T	T	T	T
	HENDON AVE (YONGE ST/FINCH AVE)	34020	A	88	43 47	79 25	5	T	T	T	T	T	T	T	T	T
	ELMCREST RD (CENTENNIAL PK)	35003	A	69	43 39	79 35	5	T	T	T	T	T	T	T	T	T
	EVANS/ARNOLD AV	36033	A	67	43 37	79 31	5	T	T	T	T	T	T	T	T	T
YORK	CLEARVIEW HEIGHTS	36030	A	88	43 42	79 29	5	T	T	T	T	T	T	T	T	T
	HWY2/NORTH SHORE BLVD E	44008	A	79	43 19	79 48	5	T	T	T	T	T	T	T	T	T
	BRONTE RD/WILSON CRES	44015	A	80	43 24	79 44	5	T	T	T	T	T	T	T	T	T
	PS, RITSON RD/OLIVE AV	45025	A	79	43 53	78 51	5	T	T	T	T	T	T	T	T	T
MISSISSAUGA	QUEENSWAY W/HURONTARIO ST	46110	A	77	43 34	79 37	5	T	T	T	T	T	T	T	T	T
	MEADOW PK, APPLE LAKE C C	46117	I	87	43 31	79 16	5	T	T	T	T	T	T	T	T	T
	HWY47E OF HWY48	48002	A	74	43 58	79 16	5	T	T	T	T	T	T	T	T	T
	BRONTE RD/WILSON CRES	44015	A	80	43 24	79 44	5	T	T	T	T	T	T	T	T	T
STOUFFVILLE	PS, RITSON RD/OLIVE AV	45025	A	79	43 53	78 51	5	T	T	T	T	T	T	T	T	T
	QUEENSWAY W/HURONTARIO ST	46110	A	77	43 34	79 37	5	T	T	T	T	T	T	T	T	T
	MEADOW PK, APPLE LAKE C C	46117	I	87	43 31	79 16	5	T	T	T	T	T	T	T	T	T
	HWY47E OF HWY48	48002	A	74	43 58	79 16	5	T	T	T	T	T	T	T	T	T
DORSET	HWY 117/PAINT LAKE ROAD	49010	A	81	45 13	78 56	3	T	T	T	T	T	T	T	T	T
	NCD GDS, RIDGEAUX/STURBURG ST	51001	A	71	45 26	75 41	4	T	T	T	T	T	T	T	T	T
	133 DALTON STREET	52020	A	88	44 14	76 31	5	T	T	T	T	T	T	T	T	T
	MEMORIAL PK, BEDFORD/THIRD STS	54051	A	70	45 01	74 44	4	T	T	T	T	T	T	T	T	T
CORNWALL	SCHOOL, 415 SECOND ST W	54068	I	75	45 01	74 44	6	T	T	T	T	T	T	T	T	T

TABLE 1 ONTARIO CONTINUOUS AIR MONITORING NETWORK FOR 1997

T = TELEMETRY YR = YEAR STATION BEGAN ID = STATION IDENTIFICATION NUMBER ELEV = AIR INTAKE HEIGHT ABOVE GROUND
 TYP = A AMBIENT SURVEY, I SOURCE SPECIFIC SURVEY LAT = LATITUDE (DEGREES MINUTES) LONG = LONGITUDE (DEGREES MINUTES)

CITY	STATION NAME	ID	TYP	YR	LAT	LONG	ELEV (M)	S02	COH	CO	O3	NO2/NOX	PM10/2.5	TRS	API	AQI
PETERBOROUGH	MOORE LANSDOWNE ST	59006	A	76	44 16	78 21	7	-	-	-	T	-	-	-	-	-
DRYDEN	35 VAN HORNE AV.	61037	I	84	49 47	92 50	15	-	-	-	-	-	-	T	-	-
FORT FRANCES	PORTAGE/CHURCH ST.	62030	I	76	48 37	93 24	4	-	-	-	-	-	-	T	-	-
FORT FRANCES	CEMETERY COLONIZATION RD W	62032	I	76	48 37	93 25	5	-	-	-	-	-	-	T	-	-
INTL FALLS	U.S. CUSTOMS BLDG	63045	I	97	-	-	4	T	-	-	-	-	-	T	-	-
FORT FRANCES	EIGHTH ST/CORNWALL AVE.	63047	I	90	48 37	93 24	4	-	-	-	-	-	-	T	-	-
FORT FRANCES	ROBERT MOORE P.S.	63200	A	97	48 38	93 23	3	-	T	-	-	-	-	T	-	T
MARATHON	WATER TOWER	63033	I	91	48 43	86 23	4	-	-	-	-	-	-	T	-	-
THUNDER BAY	CAN-CAR, MONTREAL ST.	63046	I	76	48 21	89 18	3	-	-	-	-	-	-	T	-	-
RED ROCK	RECREATION CENTRE	63084	I	81	48 57	88 15	7	-	-	-	-	-	-	T	-	-
TERRACE BAY	ST MARTIN SCHOOL	63090	I	81	48 47	87 06	8	-	-	-	-	-	-	T	-	-
TERRACE BAY	TERRACE HEIGHT DR.	63092	I	81	48 48	87 04	4	-	-	-	-	-	-	T	-	T
THUNDER BAY	MOT 615 JAMES ST S	63200	A	86	48 23	89 17	3	T	T	T	-	T	-	T	T	T
SAILT STE MARIE	WM. MERRIFIELD SCHOOL	71068	A	87	46 32	84 21	3	T	T	-	T	T	-	T	T	T
WAWA	SUPERIOR AVE	71077	I	94	47 59	84 58	5	T	-	-	-	-	-	-	-	-
NORTH BAY	CHIFFEWA STREET	75010	A	79	46 19	79 27	4	-	T	-	T	-	-	-	-	T
SUDBURY	SKEAD	77012	I	52	46 39	80 46	4	T	-	-	-	-	-	-	-	-
SUDBURY	HANMER	77013	I	73	46 39	80 57	5	T	-	-	-	-	-	-	-	-
SUDBURY	WATER TANK ASH ST.	77016	I	69	46 30	81 00	3	T	-	-	-	-	-	-	-	-
CONISTON	GOVERNMENT ROAD/EDWARD ST.	77028	I	74	46 29	80 51	4	T	-	-	-	-	-	-	-	-
GARSON	FALCONBRIDGE ROAD	77065	I	76	46 34	80 51	4	T	-	-	-	-	-	-	-	-
NEW SUDBURY	KENNEDY STREET	77075	I	76	46 31	80 57	4	T	-	-	-	-	-	-	-	-
SUDBURY	LONG LAKE ROAD (VILLA LOYOLA)	77096	I	80	46 24	81 01	4	T	-	-	-	-	-	-	-	-
SUDBURY	MICKOLA (J. HAMILTON SCHOOL)	77201	I	82	46 25	81 07	4	T	-	-	-	-	-	-	-	-
SUDBURY	SCIENCE NORTH	77203	A	84	46 28	80 59	15	T	T	T	T	T	-	T	T	T
RAYTIDE	ST LAURENT/REGIONAL RD.	77206	I	85	46 36	81 06	4	T	-	-	-	-	-	-	-	-
COPPER CLIFF	MARKET STREET	77218	I	87	46 28	81 04	4	T	-	-	-	-	-	-	-	-
SUDBURY	ROBINSON SCHOOL	77225	I	90	46 28	81 00	4	T	-	-	-	-	-	-	-	-
SUDBURY	DOZZI PARK	77228	I	91	46 28	81 02	4	T	-	-	-	-	-	-	-	-
TOTALS:								53	33	20	30	28	23	31	25	27

LEGEND:

S02 - Sulphur Dioxide
 COH - Coefficient of Haze
 CO - Carbon Monoxide
 O3 - Ozone
 NO2 - Nitrogen Dioxide
 NO - Nitric Oxide
 NOX - Oxides of Nitrogen

TRS - Total Reduced Sulphur
 API - Air Pollution Index
 AQI - Air Quality Index
 PM10/2.5 - Inhalable/Respirable Particulate (T* is PM2.5)

TABLE 2 ONTARIO NONCONTINUOUS AIR MONITORING NETWORK FOR 1997

ELEV = AIR INTAKE HEIGHT ABOVE GROUND (METERS)
LONG = LONGITUDE (DEGREES MINUTES)

TYPE = A - AMBIENT SURVEY, I - SOURCE SPECIFIC SURVEY
LAT = LATITUDE (DEGREES MINUTES)

SINGLE DIGITS = CYCLE DURATION IN DAYS
ID = STATION IDENTIFICATION NUMBER

CITY	STATION NAME	ID	TYPE	YR	LAT	LONG	ELEV (M)	TSP	Cd	Cr	Cu	Fe	Mn	Ni	Pb	V	N03	S04	Cl	C	RAD
ST. MARYS	309 THOMAS ST	11001	I	79	43 15	81 09	3	6	-	-	-	-	-	-	-	-	-	-	-	-	-
WINDSOR	WRIGHT/WATER ST	12007	I	84	42 17	83 06	4	6	6	6	6	6	6	6	6	6	6	6	6	6	6
WINDSOR	487 UNIVERSITY AV W	12008	A	70	42 19	81 03	8	6	6	6	6	6	6	6	6	6	6	6	6	6	6
WINDSOR	DROUILLARD RD/CLIMOND ST	12011	I	88	42 19	83 00	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6
WINDSOR	FILTRAT P.L. 3665 WYANDOTTE ST E	12013	I	71	42 19	83 00	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
WINDSOR	SEWAGE STN. HWY 16/PROSPECT	12015	I	71	42 17	83 05	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6
WINDSOR	COLLEGE/SOUTH ST	12016	A	75	42 18	83 04	4	6	6	6	6	6	6	6	6	6	6	6	6	6	6
WINDSOR	2885 HOWARD AVE	12018	I	78	42 17	83 01	4	6	6	6	6	6	6	6	6	6	6	6	6	6	6
AMHERSTBURG	415 FRONT ST	12053	I	81	42 08	83 07	11	6	-	-	-	-	-	-	-	-	-	-	-	-	6
AMHERSTBURG	DUFF ST (EAST END)	12055	I	91	42 07	83 06	1	6	-	-	-	-	-	-	-	-	-	-	-	-	6
WINDSOR	COLUMBUS CENTRE	12058	I	93	42 17	83 01	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6
WINDSOR	BRIENTWOOD CENTRE	12060	I	95	42 17	83 01	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
WINDSOR	CITY YARD	12061	I	95	42 18	83 02	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
COURTBAUGH	HWY 40 (OPP LAMBTON GS)	14016	I	69	42 48	82 29	4	6	6	6	6	6	6	6	6	6	6	6	6	6	6
CORUNNA	R.R. #1 (W OF HOUSE)	14030	I	78	42 53	82 17	1	6	6	6	6	6	6	6	6	6	6	6	6	6	6
SARNIA	DAVIDFRONT ST	14151	I	79	42 59	82 24	4	6	-	-	-	-	-	-	-	-	-	-	-	-	6
LONDON	900 HIGHBURY AVE	15025	A	96	42 61	81 16	4	6	6	6	6	6	6	6	6	6	6	6	6	6	6
BEACHVILLE	CYANAMIDE RD (GORDON PROP)	17014	I	74	43 05	80 50	2	6	-	-	-	-	-	-	-	-	-	-	-	-	6
INGERSOLL	HWY 2 RR 2 (J SPIEL PROP)	17020	I	81	43 04	81 49	4	6	-	-	-	-	-	-	-	-	-	-	-	-	6
EMBRIO	OXFORD CTV RD 6 (HESSSTON FARM)	17023	I	83	43 06	81 58	1	6	-	-	-	-	-	-	-	-	-	-	-	-	6
BEACHVILLE	26 VINE ST (MOE TRAILER)	17015	I	89	43 05	80 50	4	6	-	-	-	-	-	-	-	-	-	-	-	-	6
BEACHVILLE	26 VINE ST (MOE TRAILER)	17215	I	89	43 04	80 50	4	6	-	-	-	-	-	-	-	-	-	-	-	-	6
BEACHVILLE	26 VINE ST (MOE TRAILER)	17315	I	89	43 04	80 50	4	6	-	-	-	-	-	-	-	-	-	-	-	-	6
TIVERTON	CONCESSION RD 2 LOT A	18007	I	80	44 18	81 32	2	-	-	-	-	-	-	-	-	-	-	-	-	-	6
TIVERTON	CONCESSION RD 4 LOT D	18008	I	80	44 18	81 32	2	-	-	-	-	-	-	-	-	-	-	-	-	-	6
TIVERTON	CONCESSION RD 6 LOT E	18009	I	80	44 19	81 32	2	-	-	-	-	-	-	-	-	-	-	-	-	-	6
TIVERTON	CONCESSION RD 8 LOT 6	18010	I	80	44 20	81 30	2	-	-	-	-	-	-	-	-	-	-	-	-	-	6
TIVERTON	CONCESSION RD 10 LOT F	18011	I	80	44 21	81 30	2	-	-	-	-	-	-	-	-	-	-	-	-	-	6
NANTICOKE	RAINHAM RD/SANDUSK RD	22092	I	85	42 49	80 02	4	6	-	-	-	-	-	-	-	-	-	-	-	-	6
NANTICOKE	WALPOLE S PS, SANDUSK RD	22094	I	84	42 50	80 02	4	6	-	-	-	-	-	-	-	-	-	-	-	-	6
NANTICOKE	RAINHAM RD (NEAR STELCO GATE)	22907	I	84	42 49	80 05	4	6	-	-	-	-	-	-	-	-	-	-	-	-	6
NANTICOKE	N 2 KM N. NANTICOKE GS	22964	I	84	43 50	80 05	4	6	-	-	-	-	-	-	-	-	-	-	-	-	6
KITCHENER	134 LANCASTER STREET	26044	I	97	43 26	80 30	4	6	-	-	-	-	-	-	-	-	-	-	-	-	6
KITCHENER	778 QUELPH STREET	26046	I	97	43 26	80 31	4	6	-	-	-	-	-	-	-	-	-	-	-	-	6
WELLAND	337 ALBERTA/DEVON ST	27045	I	78	43 58	79 15	1	6	-	-	-	-	-	-	-	-	-	-	-	-	6

TABLE 2 ONTARIO NONCONTINUOUS AIR MONITORING NETWORK FOR 1997

TYPE - A AMBIENT SURVEY, I SOURCE SPECIFIC SURVEY						ELEV - AIR INTAKE HEIGHT ABOVE GROUND (METERS)															
LAT - LATITUDE(DEGREES MINUTES)						LONG - LONGITUDE(DEGREES MINUTES)															
CITY	STATION NAME	ID	TYPE	VR	LAT	LONG	ELEV (M)	TSP	Cd	Cr	Cu	Fe	Mn	Ni	Pb	V	NO3	SO4	Cl	C	RAD
THOROLD	185 QUEEN ST S	27052	I	82	43 07	79 12	1	6	6	6	6	6	6	6	6	6	-	-	-	-	-
	STP GROUNDS, STANLEY AV	27055	I	82	43 08	79 05	4	6	-	-	-	-	-	-	-	-	-	-	-	-	-
	ELGIN/KELLY	29000	A	88	43 15	79 52	4	6	-	-	-	-	-	-	-	-	-	-	-	-	-
	KENIL WORTH	29009	I	69	43 15	79 49	6	6	-	-	-	-	-	-	-	-	-	-	-	-	-
	BURLINGTON/LEEDS	29011	I	73	43 16	79 49	5	6	6	6	6	6	6	6	6	6	6	6	-	-	6
HAMILTON	BURLINGTON/WELLINGTON	29012	I	73	43 16	79 59	7	6	-	-	-	-	-	-	-	-	-	-	-	-	-
	BARTONS/ANFORD	29025	I	69	43 16	79 51	4	6	6	6	6	6	6	6	6	6	6	6	-	-	6
	467 BEACH BLVD	29102	I	85	43 17	79 47	4	6	6	6	6	6	6	6	6	6	6	6	-	-	6
	OFFIELD RD/HWY 5	29111	I	86	43 18	79 59	1	6	-	-	-	-	-	-	-	-	-	-	-	-	-
	GERTRUDE/DEWEY	29113	I	86	43 15	79 49	4	6	-	-	-	-	-	-	-	-	-	-	-	-	-
HAMILTON	VICKERS RDE/EST 18TH ST	29114	A	85	43 14	79 52	3	6	6	6	6	6	6	6	6	6	6	6	-	-	-
	MAIN ST/W HWY 403	29118	A	85	43 15	79 54	3	6	-	-	-	-	-	-	-	-	-	-	-	-	-
	MORLEY ST/PARKDALE AV	29119	I	86	43 15	79 47	4	6	-	-	-	-	-	-	-	-	-	-	-	-	-
	DUNDURN/YORK	29122	I	87	43 16	79 53	10	6	-	-	-	-	-	-	-	-	-	-	-	-	-
	KEEFER COURT/MOEE LAB	29143	I	92	43 24	79 76	4	6	-	-	-	-	-	-	-	-	-	-	-	-	-
TORONTO	BRUCE PS, 51 LARCHMOUNT AV	31045	I	86	43 40	79 20	6	1	-	-	-	-	-	-	1	-	-	-	-	-	-
	MOSLEY/LESLIE STS	31058	I	73	43 40	79 20	5	1	1	1	1	1	1	1	1	1	-	-	-	-	-
	A R CLARKE CO. 633 EASTERN AVE.	31065	I	87	43 40	79 20	12	1	-	-	-	-	-	-	-	-	-	-	-	-	-
	WORKS DEPT, 138 HAMILTON AV	31082	I	74	43 40	79 21	5	1	-	-	-	-	-	-	1	-	-	-	-	-	-
	2160 DIXIE RD	46047	I	95	43 36	79 35	1	6	6	6	6	6	6	6	6	6	6	-	-	-	-
MISSISSAUGA	MEADOW PARK, APPLE LANE C C	46117	I	87	43 31	79 36	5	6	6	6	6	6	6	6	6	6	6	-	-	-	-
	BOMBARDIER, MONTREAL ST	63046	I	78	48 21	89 18	3	6	-	-	-	-	-	-	-	-	-	-	-	-	-
	PUMPHOUSE, BONNEY ST	71042	I	75	44 31	84 23	2	6	6	6	6	6	6	6	6	6	6	-	-	-	6
	SAULT STE MARIE	72083	I	90	49 41	83 38	2	6	-	-	-	-	-	-	-	-	-	-	-	-	-
	FRONT/QUIBON ST							53	22	22	22	22	22	22	22	25	22	13	13	7	6

LEGEND:		Fe - Iron		Mn - Manganese		Ni - Nickel		Pb - Lead		V - Vanadium		NO3 - Nitrate		SO4 - Sulphate		Cl - Chlorine		Sb - Antimony		C - Carbon		RAD - Radiation	
TSP - Total Suspended Particulate																							
Cd - Cadmium																							
Cr - Chromium																							
Cu - Copper																							

TABLE 3 ONTARIO INHALABLE PARTICLE (PM₁₀) 24-HOUR NETWORK FOR 1997

ID - STATION ID YR - YEAR MONITORING BEGAN; LAT - LATITUDE(DIGREES-MINUTES); LONG - LONGITUDE(DEGREES-MINUTES)
ELEV - AIR INTAKE HEIGHT ABOVE GROUND (METERS) TYPE - AMBIENT SURVEY; 1 = SOURCE SPECIFIC SURVEY

CITY	STATION NAME	ID	Yr	Type	LAT	LONG	(M)	IP	Cu	Fe	Mn	Pb	Cr	Cd	V	Ni	SO ₄
							ELEV										
WINDSOR	WRIGHT/WATER STREET	12507	90	I	42 17	82 16	4	6	6	6	6	6	6	6	6	6	6
WINDSOR	467 UNIVERSITY AVE WEST	12508	89	A	42 19	83 02	8	6	6	6	6	6	6	6	6	6	6
WINDSOR	3663 WYANDOTTE ST. E.	12513	92	I	42 19	83 00	6	6	6	6	6	6	6	6	6	6	6
SARNIA	6TH LINE, MOORE TWP	14550	97	I	42 58	82 24	3	6	6	6	6	6	6	6	6	6	6
SARNIA	CENTENNIAL PK/FRONT STREET	14564	97	A	42 59	82 24	3	6	6	6	6	6	6	6	6	6	6
LONDON	900 HIGBURY AVE EAST	15525	90	A	42 57	81 13	4	6	6	6	6	6	6	6	6	6	6
NANTICOKE	WALPOLE S P S, SANDUSK RD	22304	92	I	42 50	80 02	4	6	6	6	6	6	6	6	6	6	6
ST CATHARINES	KING ST	27308	91	I	43 10	79 15	12	6	6	6	6	6	6	6	6	6	6
THOROLD	185 QUEEN ST. SOUTH	27352	90	I	43 07	79 12	1	6	6	6	6	6	6	6	6	6	6
HAMILTON	ELGIN/KELLY STREET	29300	90	A	43 15	79 52	4	6	6	6	6	6	6	6	6	6	6
HAMILTON	BEACH BLVD	29302	89	I	43 17	79 47	4	6	6	6	6	6	6	6	6	6	6
HAMILTON	GERTRUDE/DEWEY STREET	29313	90	I	43 15	79 49	4	6	6	6	6	6	6	6	6	6	6
HAMILTON	BUCHANAN PARK P S	29324	92	I	43 14	79 53	4	6	6	6	6	6	6	6	6	6	6
TORONTO	RAY ST/AGROSVORNOV AVE.	31127	89	A	43 40	79 23	3	6	6	6	6	6	6	6	6	6	6
ETOBICOKE	EVANS/ARNOLD AVENUE	33127	90	A	43 37	79 31	1	6	6	6	6	6	6	6	6	6	6
OAKVILLE	BIRNITE RD/WOODBURN CREEK	44127	92	I	43 24	79 44	5	6	6	6	6	6	6	6	6	6	6
MISSISSAUGA	MEADOWOOD PK, APPLE LANE C C	46127	93	A	43 31	79 36	1	6	6	6	6	6	6	6	6	6	6
CORNWALL	MEMORIAL PK, BEDFORD/THIRD STS	56551	92	A	45 01	74 44	4	6	6	6	6	6	6	6	6	6	6
FORT FRANCES	250 CHURCH STREET	62135	92	I	48 36	93 23	9	6	6	6	6	6	6	6	6	6	6
THUNDER BAY	615 JAMES ST. SOUTH	63201	89	A	48 23	89 17	4	6	6	6	6	6	6	6	6	6	6
SALT STE MARIE	PUMPHOUSE/BONNEY STREET	71342	89	I	46 31	84 23	2	6	6	6	6	6	6	6	6	6	6
SALT STE MARIE	W M MERRIFIELD SCHOOL	71348	90	A	46 32	84 21	3	6	6	6	6	6	6	6	6	6	6
SUDBURY	LISGAR ST	73126	91	A	46 29	80 59	8	6	6	6	6	6	6	6	6	6	6
COPPER CLIFF	MARKET STREET	77570	96	I	46 38	81 04	4	6	6	6	6	6	6	6	6	6	6
TOTALS:								24	24	24	24	24	24	24	24	24	24

Notes: Samplers operate on a 6-day sampling cycle

LEGEND:

IP - Inhalable Particle
Cu - Copper
Fe - Iron
Mn - Manganese
Ni - Nickel
Cr - Chromium
Cd - Cadmium
V - Vanadium
SO₄ - Sulphate
Pb - Lead

TABLE 4 ONTARIO METEOROLOGICAL NETWORK FOR 1997

ID - STATION NUMBER YR - YEAR MONITORING BEGAN
LAT - LATITUDE (DEGREES/MINUTES) LONG - LONGITUDE (DEGREES/MINUTES)

CITY	STATION NAME	Sta #	YR	LAT	LONG	WS1	HT1	WS2	HT2	WS3	HT3	TEM	DT1	DT2
Windsor	Windsor Water St.	12007	84	42 17	82 16	T	10	T	40	-	-	-	T	-
Merlin	MOE Water Pump Sta, Middle Rd.	13021	77	42 15	82 13	T	9	-	-	-	-	-	-	-
Cambridge	Hwy 49 (OPP Lambton GS)	14016	75	42 48	82 29	T	10	T	30	T	90	T	T	T
Parkville	Pec Building	15013	83	43 10	81 41	T	10	-	-	-	-	-	-	-
London	800 Commissioners St. (BfW Plant)	15018	86	42 57	81 13	T	25	-	-	-	-	-	-	-
Blackville	26 Vine Street (MOE Trailer)	17015	89	43 04	80 51	T	9	-	-	-	-	-	-	-
Timmins	Bruce GS Weather Station	18017	79	44 18	81 35	T	10	T	30	-	-	T	T	T
Jarvis	Hydro Met Tower (2Kms NE Jarvis)	22883	84	42 54	80 05	T	10	-	-	T	85	T	-	-
Long Point	Provincial Park	22901	79	42 35	80 23	T	10	-	-	T	85	T	-	-
Nanticoke	Rainham Road (Near Salses Gate)	22907	89	42 48	80 04	T	10	-	-	-	-	-	-	-
Cambridge	Clyde Road	26066	91	43 38	80 29	T	30	-	-	-	-	-	-	-
Albany	Transformer Station Highway 58	27011	81	43 04	79 11	T	10	T	37	-	-	T	T	-
Hamilton	N. Brantford/Woodward	29026	75	43 15	79 46	T	10	T	30	T	91	T	T	T
Hamilton	JT Cuts	29531	96	43 29	79 55	T	10	T	-	-	-	-	-	-
Toronto	Bruce Pk. 51 Leachman Avenue	31045	75	43 39	79 25	T	21	-	-	-	-	-	-	-
Toronto	Perth/Markham (Junction Triangle)	31120	82	43 40	79 27	T	18	-	-	-	-	-	-	-
Scarborough	Lawrence/Kennedy Ave.	33003	75	43 45	79 16	T	12	-	-	T	76	T	T	T
Etobicoke	Ernst/Kennedy Avenue	33033	75	43 37	79 31	T	10	T	30	T	91	T	T	T
Burlington	Hwy 2/ North Shore Blvd.	46008	79	43 19	79 48	T	10	-	-	-	-	-	-	-
Oakville	Brown Road/Wideman Crescent	46015	80	43 24	79 44	T	10	-	-	-	-	-	-	-
Stouffville	Highway 47 East Of Highway 48	48002	82	43 58	79 16	T	10	-	-	-	-	-	-	-
Kingston	133 Dallas Ave	50020	76	44 14	76 31	T	10	-	-	-	-	-	-	-
Cornwall	Memorial Park	56851	85	45 01	74 44	T	18	-	-	-	-	T	-	-
Dryden	35 Van Horne Avenue	61027	84	49 47	92 50	T	18	-	-	-	-	T	-	-
Port Franco	Engel Street/Cornwall Avenue	62047	90	48 37	93 25	T	10	-	-	-	-	T	-	-
Marathon	Water Tower	63033	78	48 43	86 23	T	8	-	-	-	-	-	-	-
Red Bank	Recreation Centre	63084	82	48 57	88 15	T	15	-	-	-	-	-	-	-
Terrence Bay	St. Maria School	63090	81	48 47	87 05	T	12	-	-	-	-	T	-	-
Thunder Bay	Fort William	63126	94	48 24	89 19	T	10	-	-	-	-	-	-	-
Thunder Bay	MOT 615 James Street South	63200	90	48 22	89 17	T	10	-	-	-	-	-	-	-
Sault Ste Marie	Wm. Merrifield School	71088	87	46 32	84 21	T	10	-	-	-	-	T	-	-
Heart	613 Frost St	72113	96	49 41	83 38	T	10	-	-	-	-	-	-	-
North Bay	Chippewa St	75010	87	46 19	79 27	T	10	-	-	-	-	T	-	-
Sudbury	Hunter	77013	82	46 39	80 57	T	10	-	-	-	-	T	-	-
Sudbury	CKNC-TV, 699 Front Road	77025	73	46 30	81 00	T	10	-	-	T	115	T	T	T
Sudbury	1412 Stephen Street	77225	90	46 28	81 00	T	6	-	-	-	-	T	-	-

LEGEND:

HT1 - SENSOR HEIGHT (METERS) LEVEL 1
HT2 - SENSOR HEIGHT (METERS) LEVEL 2
HT3 - SENSOR HEIGHT (METERS) LEVEL 3

TEM - AMBIENT TEMPERATURE

DT1 - TEMPERATURE DIFFERENCE LEVEL 2 MINUS LEVEL 1

DT2 - TEMPERATURE DIFFERENCE LEVEL 3 MINUS LEVEL 1

TABLE 5 Sulphur Dioxide (SO₂) Statistics (1997)

Unit: parts per billion (ppb)

Stn #	City	Location	P E R C E N T I L E S										Maximum		# of times above	
			Valid hrs	10%	30%	50%	70%	90%	99%	Mean	1h	24h	1h	24h	1h	1y
12007	Windsor	Wright/Water St	8610	2	5	8	12	24	54	10.9	129	43.5	0	0	0	0
12008	Windsor	467 University Av W	8551	0	2	4	7	17	39	6.7	77	32.0	0	0	0	0
12016	Windsor	College/South St	7670	0	4	7	13	28	86	12.5	543	131.1	12	1	0	0
14016	Courtnight	Hwy40 (OPP Lambton GS)	7953	2	4	5	8	16	69	8.5	196	55.3	0	0	0	0
14064	Sarnia	Centennial Pk, Front St/Cn Tracks	8576	0	1	2	5	20	108	8.7	245	83.3	0	0	0	0
15025	London	900 Highbury Ave.	8626	0	1	2	3	6	13	2.5	49	13.0	0	0	0	0
18007	Triverton	Concession Rd 2 Lot A	8670	0	1	1	2	5	13	2.0	37	16.5	0	0	0	0
22071	Simcoe	Experimental Farm	8340	1	1	2	3	7	17	3.2	71	18.2	0	0	0	0
22086	Nanticoke	Chesapeake Rd(3 Km S of Hwy 3)	8733	0	1	2	4	11	34	4.4	148	28.6	0	0	0	0
22901	Long Point	Provincial Park	8115	0	1	2	3	6	18	2.7	83	17.3	0	0	0	0
22904	Nanticoke	Walpole S Pt Sanduski Rd	2181	1	3	4	7	15	35	INS	76	18.2	0	0	INS	0
22907	Nanticoke	Rainham Rd (Near Steleo Gate)	8379	0	1	2	5	12	40	5.0	122	52.1	0	0	0	0
26060	Kitchener	West Ave/Homeswood	8662	1	1	2	3	7	16	3.1	52	20.0	0	0	0	0
27067	St Catharines	Argyle Cres (Pump Stn)	8383	0	2	4	7	13	25	5.8	47	26.0	0	0	0	0
29000	Hamilton	Elgin/Kelly St	8743	1	2	4	6	14	36	5.8	83	23.2	0	0	0	0
29025	Hamilton	Barton/Wentworth	8297	1	2	4	6	14	38	6.0	101	24.8	0	0	0	0
29102	Hamilton	467 Beach Blvd	6967	1	4	6	11	32	81	12.1	165	65.2	0	0	0	0
29114	Hamilton	Vickers Rd/East 18Th St	8387	1	2	3	5	12	31	5.2	62	28.2	0	0	0	0
29118	Hamilton	Main St W/Hwy-403	7759	0	2	3	6	12	25	4.9	60	16.9	0	0	0	0
31303	Toronto	Toronto (Osgoode)	8443	1	3	4	6	10	21	5.3	64	21.6	0	0	0	0
33003	Scarborough	Lawrence/Kennedy	8339	2	3	4	6	10	19	5.2	37	16.1	0	0	0	0
34020	North York	Hendon Ave (Yonge/Finch)	8256	1	2	3	5	9	21	4.4	74	19.1	0	0	0	0
35003	Erie	Elmcrest Rd (Centennial Pk)	8346	2	3	4	5	9	21	4.9	130	18.4	0	0	0	0
35033	Erie	Evans/Arnold Av	8568	2	3	4	6	10	21	5.2	74	20.3	0	0	0	0
36030	York	Clearview Hr. GS/Keele St	8460	1	2	4	6	10	28	5.2	95	22.4	0	0	0	0
44008	Burlington	Hwy2/North Shore Blvd E	8478	2	3	4	6	9	21	5.1	60	19.8	0	0	0	0
44015	Oakville	Bronte Rd/Woburn Cres	8662	1	2	3	5	10	24	4.8	59	19.3	0	0	0	0
45025	Oakville	Pt Riton Rd/Olive Av	8496	1	2	4	5	9	19	4.6	58	17.0	0	0	0	0
46110	Mississauga	Queensway W/Hurontario St	2491	2	3	4	6	10	22	INS	44	19.6	0	0	INS	0
46117	Mississauga	Meadow Pk, Apple Lane Club	8680	1	2	3	4	8	20	3.8	47	18.0	0	0	0	0
48002	Stouffville	Hwy47/E of Hwy-48	6048	1	2	2	4	6	15	3.3	84	12.7	0	0	0	0
49010	Dorset	Hwy 117/Paint Lake Rd	8493	0	0	1	2	3	10	1.4	99	18.7	0	0	0	0
51001	Ottawa	Mod Gds, Rideau/Wurtemburg St	8632	2	5	6	7	10	18	6.3	67	17.6	0	0	0	0

TABLE 5 Sulphur Dioxide (SO₂) Statistics (1997)

Unit: parts per billion (ppb)

Sta #	City	Location	Valid hrs	P E R C E N T I L E S										Maximum		# of times above		
				10%	30%	50%	70%	90%	99%	Mean	1h	24h	1h	24h	1h	24h	1y	
56051	Cornwall	Memorial Pk Bedford/Third	8760	0	1	2	4	8	34	3.9	141	39.6	0	0	0	0	0	
62045	Infl Falls	US Customs Bldg	8662	0	0	0	0	0	2	0.1	55	5.0	0	0	0	0	0	
63200	Thunder Bay	MOT 615 James St S	8613	0	0	0	0	1	6	0.4	28	3.8	0	0	0	0	0	
71068	Sault Ste Marie	Wm. Merrifield School	8707	0	0	0	1	4	34	2.1	81	26.7	0	0	0	0	0	
71077	Wawa	Superior Ave/Tamarack Ave	8270	0	0	0	0	2	86	2.9	467	67.8	14	0	0	0	0	
77012	Sudbury	Sked	8689	0	1	2	3	9	86	5.9	526	79.3	6	0	0	0	0	
77013	Sudbury	Hanner	8729	0	0	1	2	4	52	2.9	246	41.8	0	0	0	0	0	
77016	Sudbury	Water Tank Ash St	8746	0	1	1	3	15	74	6.1	359	46.8	8	0	0	0	0	
77028	Coniston	Government Rd/Edward St	8741	0	0	1	2	7	82	4.4	550	68.0	4	0	0	0	0	
77065	Garson	Falconbridge Rd	8505	0	0	1	2	8	59	4.1	360	38.6	2	0	0	0	0	
77075	New Sudbury	Kennedy St	8690	0	0	1	2	9	68	4.7	320	49.7	2	0	0	0	0	
77096	Sudbury	Long Lake Rd (Villa Loyola)	8731	0	1	1	3	8	73	4.7	493	51.3	2	0	0	0	0	
77201	Sudbury	Mikkola (J. Hamilton School)	8710	0	0	1	2	5	62	3.7	594	68.2	3	0	0	0	0	
77203	Sudbury	Science North	8586	0	0	1	2	6	59	3.5	256	61.3	1	0	0	0	0	
77206	Raynide	St Laurent/Regional Rd	8751	0	0	1	1	4	27	1.9	379	32.7	1	0	0	0	0	
77218	Copper Cliff	Market St	8668	0	0	1	2	10	96	6.1	1170	101.8	15	1	0	0	0	
77225	Sudbury	Robinson School	4235	0	0	1	2	8	73	INS	396	63.4	5	0	0	INS	0	
77228	Sudbury	Dozzi Park	8646	0	0	1	2	7	58	3.8	435	39.6	5	0	0	0	0	

Table 6 Suspended Particles (SP) Statistics (1997)

Unit: COHS/1000 FT

Stn	City	Location	Valid hrs	P E R C E N T I L E S										Maximum		# of times above	
				10%	30%	50%	70%	90%	99%	Mean	1h	24h	1y	1h	24h	1y	Criteria
12008	Windsor	467 University Av W	8636	0.0	0.1	0.1	0.2	0.3	0.7	0.15	2.6	0.74	0	2.6	0.74	0	0
12016	Windsor	College/South St	8672	0.1	0.1	0.2	0.3	0.5	1.1	0.25	2.7	0.89	0	2.7	0.89	0	0
14064	Sarnia	Centennial Pk, Front St/Cn Tracks	8265	0.0	0.1	0.1	0.2	0.4	0.7	0.18	1.2	0.63	0	1.2	0.63	0	0
15025	London	900 Highbury Ave.	8193	0.0	0.1	0.1	0.2	0.3	0.6	0.17	1.2	0.51	0	1.2	0.51	0	0
22907	Nanticoke	Rainburn Rd (Near Stelco Gate)	8310	0.0	0.1	0.1	0.2	0.4	0.6	0.16	1.6	0.56	0	1.6	0.56	0	0
26060	Kitchener	West Ave/Homewood	8633	0.0	0.1	0.1	0.2	0.3	0.6	0.18	2.1	0.57	0	2.1	0.57	0	0
27067	St Catharines	Argyle Cres (Pump Stn)	8119	0.0	0.1	0.2	0.2	0.4	0.8	0.20	2.0	0.79	0	2.0	0.79	0	0
29000	Hamilton	Elgin/Kelly St	8730	0.1	0.2	0.2	0.4	0.7	1.6	0.33	3.8	1.23	5	3.8	1.23	5	0
29025	Hamilton	Barton/Wentworth	7494	0.1	0.2	0.3	0.4	0.6	1.3	0.32	4.7	1.09	2	4.7	1.09	2	0
29102	Hamilton	467 Beach Blvd	8180	0.1	0.2	0.3	0.5	0.9	1.7	0.42	4.6	1.27	7	4.6	1.27	7	0
29114	Hamilton	Vickers Rd/East 18Th St	8324	0.0	0.1	0.2	0.2	0.4	1.0	0.21	3.7	0.77	0	3.7	0.77	0	0
29118	Hamilton	Main St W/Hwy403	8636	0.1	0.1	0.2	0.3	0.6	1.3	0.28	2.5	1.04	1	2.5	1.04	1	0
29531	Hamilton	Ji Case	8000	0.1	0.2	0.3	0.6	1.2	2.5	0.51	4.8	2.58	29	4.8	2.58	29	1
29547	Hamilton	Pier 25	3800	0.0	0.0	0.2	0.5	0.9	1.9	0.28	1.9	0.81	0	1.9	0.81	0	0
29561	Hamilton	Hamilton - Homeide	8354	0.0	0.1	0.2	0.3	0.6	1.2	0.28	2.7	0.86	0	2.7	0.86	0	0
31303	Toronto	Toronto (Osgoode)	8436	0.1	0.2	0.3	0.4	0.7	1.2	0.35	2.3	0.83	0	2.3	0.83	0	0
33003	Scarborough	Lawrence/Kennedy	8389	0.1	0.2	0.2	0.3	0.5	1.1	0.28	1.9	0.81	0	1.9	0.81	0	0
34020	North York	Hendon Ave (Yonge/Finch)	8452	0.1	0.1	0.2	0.3	0.6	1.1	0.28	3.0	0.79	0	3.0	0.79	0	0
35003	Etobicoke	Elmscrest Rd (Centennial Pk)	8574	0.1	0.1	0.2	0.3	0.5	1.1	0.26	2.5	0.86	0	2.5	0.86	0	0
35033	Etobicoke	Evans/Arnold Av	8578	0.1	0.2	0.3	0.4	0.7	1.3	0.36	4.2	0.93	0	4.2	0.93	0	0
36030	York	Clearview Ht. GS/Keele St	8472	0.1	0.1	0.2	0.3	0.6	1.4	0.29	3.3	0.79	0	3.3	0.79	0	0
44008	Burlington	Hwy2/North Shore Blvd E	8334	0.1	0.1	0.2	0.4	0.6	1.1	0.30	2.1	0.92	0	2.1	0.92	0	0
44015	Oakville	Bronte Rd/Woburn Cres	8628	0.0	0.1	0.2	0.3	0.4	0.9	0.22	4.3	0.86	0	4.3	0.86	0	0
45025	Oshawa	Ps Rileon Rd/Olive Av	8485	0.0	0.1	0.2	0.3	0.5	1.0	0.24	4.9	0.69	0	4.9	0.69	0	0
46110	Mississauga	Queenway W/Hurontario St	8299	0.1	0.2	0.3	0.4	0.6	1.3	0.32	2.7	0.94	0	2.7	0.94	0	0
51001	Ottawa	McD Gds, Rideau/Wurtemburg St	8590	0.0	0.1	0.1	0.2	0.3	0.7	0.16	1.6	0.52	0	1.6	0.52	0	0
52020	Kingston	133 Dalton Ave.	8676	0.0	0.1	0.1	0.2	0.4	0.9	0.16	3.1	0.68	0	3.1	0.68	0	0
56051	Cornwall	Memorial Pk Bedford/Third	8760	0.0	0.0	0.1	0.1	0.2	0.6	0.11	1.5	0.74	0	1.5	0.74	0	0
62200	Fort Frances	Robert Moore PS	8548	0.0	0.0	0.1	0.1	0.2	0.5	0.09	2.0	0.36	0	2.0	0.36	0	0
63200	Thunder Bay	MOT 615 James St S	8250	0.0	0.1	0.1	0.2	0.4	0.9	0.17	1.7	0.67	0	1.7	0.67	0	0
71068	Sault Ste Marie	Wm. Merrifield School	8476	0.0	0.1	0.1	0.3	0.5	1.1	0.22	2.8	0.79	0	2.8	0.79	0	0
75010	North Bay	Chippewa School	8703	0.0	0.0	0.1	0.2	0.3	0.8	0.15	1.5	0.55	0	1.5	0.55	0	0
77203	Sudbury	Science North	8516	0.0	0.0	0.1	0.2	0.3	0.6	0.12	1.6	0.47	0	1.6	0.47	0	0

TABLE 7 Total Reduced Sulphur (TRS) Statistics (1997)

Unit: parts per billion (ppb)

Sta #	City	Location	P E R C E N T I L E S										Maximum		Exceedances of Pulp Mill Criterion 1b
			Valid hrs	10%	30%	50%	70%	90%	99%	Mean	1h	24h	1h	24h	
12007	Windsor	Wright/Water St	8615	0	0	0	1	3	10	1.0	31	10.8	3		
12016	Windsor	College/South St	7955	0	0	1	1	4	19	1.6	129	28.0	30		
14064	Sarnia	Centennial Pk, Front St/Cn Tracks	8492	0	0	0	0	1	3	0.2	39	3.5	1		
18007	Tiverton	Concession Rd 2 Lot A	8674	0	0	0	0	0	1	0.1	2	1.0	0		
22904	Nanticoke	Walpole S Pt Sanduski Rd	8456	0	0	0	1	1	4	0.4	14	3.4	0		
22907	Nanticoke	Rainham Rd (Near Stelco Gate)	8513	0	0	0	1	2	10	0.8	32	11.7	2		
29000	Hamilton	Elgin/Kelly St	7185	0	0	1	1	2	8	1.0	32	7.0	2		
29025	Hamilton	Barton/Wentworth	8257	0	0	1	1	2	6	0.9	33	4.9	1		
29102	Hamilton	467 Beach Blvd	7771	0	1	2	3	7	17	2.7	52	15.6	21		
29114	Hamilton	Vickers Rd/East 18th St	8661	0	0	0	1	1	5	0.6	20	6.0	0		
29118	Hamilton	Main St W/Hwy403	8648	0	0	0	1	2	6	0.8	35	5.0	1		
29531	Hamilton	Ji Case	7904	0	0	1	1	5	19	1.9	48	18.0	29		
29547	Hamilton	Pier 25	6097	0	0	1	2	6	20	2.3	61	15.7	28		
44015	Oakville	Brooks Rd/Woburn Cres	8642	0	1	1	2	2	4	1.3	8	4.5	0		
46117	Mississauga	Meadow Pk, Apple Lane Club	8571	0	1	1	1	1	2	0.8	5	2.2	0		
56051	Corwall	Memorial Pk Bedford/Third	8760	0	1	2	2	4	8	2.0	117	9.4	8		
56068	Corwall	School 435 Second St W	8563	0	1	3	6	9	18	4.1	53	17.2	9		
61027	Dryden	35 Van Horne Av	8621	0	0	0	0	1	12	0.6	60	16.3	10		
62030	Fort Frances	Portage/Church St	8720	0	0	0	1	8	31	2.6	131	25.2	117		
62032	Fort Frances	Cemetery, Colonization Rd W	8571	0	0	0	0	2	9	0.6	56	9.3	9		
62045	Int'l Falls	US Customs Bldg	8315	0	0	0	1	6	24	1.9	122	21.1	62		
62047	Fort Frances	Eighth St/Corwall Ave	8709	0	0	0	1	7	40	2.5	148	43.1	188		
62200	Fort Frances	Robert Moore PS	8735	0	0	0	0	2	15	1.1	135	15.3	44		
63033	Marathon	Water Tower	8544	0	0	0	0	0	3	0.2	19	2.3	0		
63046	Thunder Bay	Can-Car Montreal St	8713	0	0	0	0	3	17	1.1	107	10.5	27		
63084	Red Rock	Recreation Centre	8509	0	0	0	0	4	27	1.6	80	29.8	83		
63090	Terrace Bay	St Martin School	8702	0	0	0	0	3	16	1.0	72	8.8	29		
63092	Terrace Bay	Terrace Heights Dr	8460	0	0	0	0	2	33	1.6	218	26.3	129		
63200	Thunder Bay	MOT 615 James St S	8539	0	0	0	0	0	3	0.1	15	3.1	0		
71068	Sault Ste Marie	Wm. Merrifield School	8555	0	0	0	0	1	7	0.3	28	6.9	1		
77203	Sudbury	Science North	8548	0	0	0	0	1	1	0.3	2	1.2	0		

TABLE 8 Carbon Monoxide (CO) Statistics (1997)

Unit: parts per million (ppm)

Stn	City	Location	Valid hrs	P E R C E N T I L E S									Maximum		# of times above	
				10%	30%	50%	70%	90%	99%	Mean	1h	8h	1h	8h	1h	8h
12008	Windsor	467 University Av W	8642	0	0	1	1	1	2	0.6	8	2.5	0	0	0	0
14064	Sarnia	Centennial Pk, Front St/On Tracks	8638	0	0	0	0	1	1	0.2	4	2.2	0	0	0	0
15025	London	900 Highbury Ave.	8590	0	0	0	0	1	1	0.3	4	1.6	0	0	0	0
26060	Kitchener	West Ave/Homeswood	8361	0	0	0	0	1	1	0.2	8	4.4	0	0	0	0
27067	St Catharines	Argyle Cres (Pump Stn)	8381	0	0	0	0	0	1	0.1	7	2.1	0	0	0	0
29000	Hamilton	Elgin/Kelly St	8613	0	0	1	1	1	2	0.7	6	2.4	0	0	0	0
29118	Hamilton	Main St W/Hwy403	8534	0	0	1	1	1	2	0.6	5	2.5	0	0	0	0
31303	Toronto	Toronto (Osgoode)	8477	1	1	1	1	2	3	1.2	6	3.6	0	0	0	0
33003	Scarborough	Lawrence/Kennedy	8222	0	0	1	1	1	2	0.6	5	3.9	0	0	0	0
34020	North York	Hendon Ave (Yonge/Finch)	8567	0	0	1	1	1	2	0.7	5	5.0	0	0	0	0
35003	Etobicoke	Elmcrest Rd (Centennial Pk)	8372	1	1	1	1	2	2	1.0	5	3.5	0	0	0	0
35033	Etobicoke	Evans/Arnold Av	8586	1	1	1	1	2	3	1.1	5	3.3	0	0	0	0
36030	York	Clearview Ht/Keele St	8490	0	0	0	1	1	3	0.6	10	5.9	0	0	0	0
44008	Burlington	Hwy2/North Shore Blvd E	8560	0	0	0	1	1	1	0.4	3	1.8	0	0	0	0
44015	Oakville	Bronte Rd/Woburn Cres	8668	0	0	0	0	1	1	0.3	3	1.6	0	0	0	0
45025	Oshawa	Pa Rison Rd/Olive Av	8328	0	0	0	1	1	3	0.4	10	6.1	0	0	0	0
51001	Ottawa	McG Gds, Rideau/Wurtemburg St	8453	0	0	0	1	1	2	0.4	9	3.0	0	0	0	0
56051	Corwall	Memorial Pk Bedford/Third	8755	1	1	1	1	2	2	1.1	7	3.3	0	0	0	0
63200	Thunder Bay	MOT 615 James St S	8635	0	0	0	0	1	2	0.3	4	2.4	0	0	0	0
77203	Sudbury	Science North	8455	0	0	0	0	0	1	0.0	5	1.6	0	0	0	0

TABLE 9 Nitrogen Dioxide (NO₂) Statistics (1997)

Unit: parts per billion (ppb)

Sta #	City	Location	Valid hrs	P E R C E N T I L E S										Maximum		# of times above Criteria	
				10%	30%	50%	70%	90%	99%	Mean	1h	24h	1h	24h	1h	24h	
12008	Windsor	467 University Av W	8445	11	17	22	29	39	55	23.8	82	46.6	0	0	0	0	
14064	Sarnia	Centennial Pk, Front St/Cn Tracks	8409	5	9	14	21	34	50	16.9	76	38.8	0	0	0	0	
15013	Parkhill	Puc Bldg	8437	3	6	8	11	18	34	9.5	69	34.0	0	0	0	0	
15025	London	900 Highbury Ave.	7946	7	12	16	22	32	50	18.0	76	41.3	0	0	0	0	
22086	Nanticoke	Cheapside Rd(3 Km S of Hwy 3)	8696	4	5	7	9	15	27	8.3	42	27.0	0	0	0	0	
22901	Long Point	Provincial Park	8241	2	3	4	7	13	26	6.1	49	25.3	0	0	0	0	
26060	Kitchener	West Ave/Homeswood	8282	5	7	11	17	27	41	13.7	56	41.7	0	0	0	0	
27067	St Catharines	Argyle Cres (Pump Sta)	8170	6	9	12	16	25	39	13.8	61	31.7	0	0	0	0	
29000	Hamilton	Elgin/Kelly St	8687	7	12	17	23	32	45	18.6	59	41.4	0	0	0	0	
29102	Hamilton	467 Beach Blvd	6741	5	12	18	25	34	48	19.1	65	48.3	0	0	0	0	
29114	Hamilton	Vickers Rd/East 18Th St	8228	5	8	13	18	31	47	15.4	76	42.8	0	0	0	0	
29118	Hamilton	Main St W/Hwy403	8152	7	12	17	24	36	54	19.5	87	54.0	0	0	0	0	
31303	Toronto	Toronto (Osgoode)	8410	18	24	30	37	49	69	31.7	108	66.2	0	0	0	0	
33003	Scarborough	Lawrence/Kennedy	8361	9	16	22	29	39	56	23.4	81	43.8	0	0	0	0	
34020	North York	Hendon Ave (Yonge/Finch)	8459	5	11	19	27	38	55	20.2	81	48.6	0	0	0	0	
35003	Ethioko	Elmcrest Rd (Centennial Pk)	8499	12	18	25	32	45	62	26.7	98	53.9	0	0	0	0	
35033	Ethioko	Evans/Arnold Av	8617	16	22	28	34	45	61	29.2	87	50.1	0	0	0	0	
36030	York	Clearview Ht. GS/Keele St	6833	11	16	22	29	39	56	23.9	75	44.0	0	0	0	0	
44008	Burlington	Hwy2/North Shore Blvd E	8616	4	8	12	17	25	37	13.2	75	34.6	0	0	0	0	
44015	Oakville	Bronte Rd/Woburn Cres	8673	9	14	19	25	36	49	20.8	87	42.5	0	0	0	0	
45025	Oshawa	Pa Ritson Rd/Olive Av	8462	6	10	17	24	34	51	18.6	83	40.5	0	0	0	0	
48002	Stouffville	Hwy47/E of Hwy48	8498	1	4	6	10	21	35	8.7	55	29.6	0	0	0	0	
49010	Dorset	Hvy 117/Paint Lake Rd	8627	1	1	2	3	6	20	3.1	59	22.8	0	0	0	0	
51001	Ottawa	McD Gds, Rideau/Wurtemburg St	8615	1	5	10	16	29	43	12.5	66	36.8	0	0	0	0	
56051	Corwall	Memorial Pk Bedford/Third	8463	0	2	5	9	20	42	8.0	100	42.7	0	0	0	0	
63200	Thunder Bay	MOT 615 James St S	8156	3	6	9	13	26	45	11.7	65	36.5	0	0	0	0	
71068	Sault Ste Marie	Wm. Merrifield School	8638	1	4	8	13	23	36	10.3	53	29.3	0	0	0	0	
77203	Sudbury	Science North	6855	1	3	5	8	16	39	7.4	56	30.2	0	0	0	0	

TABLE 10 Nitrogen Oxide (NO) Statistics (1997)

Unit: parts per billion (ppb)

Sta #	City	Location	Valid hrs	P E R C E N T I L E S										Maximum	
				10%	30%	50%	70%	90%	99%	Mean	1h	24h			
12008	Windsor	467 University Av W	8445	3	6	9	14	36	111	15.9	286	114.7			
14064	Sarnia	Centennial Pk, Front St/Cn Tracks	8403	0	2	3	6	16	60	7.0	220	67.6			
15013	Parkhill	Puc Bldg	8447	1	1	2	2	4	15	2.3	59	14.5			
15025	London	900 Highbury Ave.	7971	0	2	4	7	17	65	7.6	248	73.1			
22086	Nanticoke	Cheapside Rd(3 Km S of Hwy 3)	8696	0	1	1	2	4	13	1.7	49	9.3			
22901	Long Point	Provincial Park	8243	0	0	0	1	2	10	0.9	70	12.0			
26060	Kitchener	West Ave/Homewood	8282	1	1	2	4	11	54	5.5	389	50.7			
27067	St Catharines	Argyle Cres (Pump Stn)	8175	1	2	4	7	22	121	10.3	371	100.3			
29000	Hamilton	Elgin/Kelly St	8687	1	2	5	9	25	98	10.8	405	67.1			
29102	Hamilton	467 Beach Blvd	6742	1	5	13	24	49	125	20.5	304	71.0			
29114	Hamilton	Vickers Rd/East 18Th St	8229	0	1	3	5	15	60	6.3	161	47.1			
29118	Hamilton	Main St W/Hwy403	8152	1	3	7	16	58	209	22.1	415	124.4			
31190	Toronto	CN Tower, 301 Front St W	3433	0	1	1	2	7	31	3.2	272	26.0			
31303	Toronto	Toronto (Osgoode)	8411	6	15	24	38	70	154	32.9	355	120.8			
33003	Scarborough	Lawrence/Kennedy	8360	3	7	15	26	56	166	24.9	488	172.4			
34020	North York	Hendon Ave (Yonge/Finch)	8459	3	4	7	15	39	120	16.3	323	96.5			
35003	Etobicoke	Elmcrest Rd (Centennial Pk)	8499	1	3	6	14	48	170	18.6	521	99.5			
35033	Etobicoke	Evans/Arnold Av	8617	5	12	21	34	77	218	33.8	515	126.1			
36030	York	Clearview Ht. GS/Keele St	6833	2	5	9	17	51	217	21.9	584	136.6			
44008	Burlington	Hwy2/North Shore Blvd E	8616	1	2	5	10	30	111	12.2	309	93.2			
44015	Oakville	Bronte Rd/Woburn Cres	8673	4	6	8	12	32	119	14.9	300	66.3			
45025	Oshawa	Ps Rileson Rd/Olive Av	8462	4	6	9	15	36	123	16.4	292	86.0			
48002	Stouffville	Hwy47/E of Hwy48	8498	2	2	3	5	11	45	5.9	205	41.1			
49010	Dorset	Hwy 117/Paint Lake Rd	8627	1	1	1	1	2	5	1.3	27	6.5			
51001	Ottawa	McG Gds, Rideau/Wurtemburg St	8615	0	0	1	3	14	70	5.5	362	51.6			
56051	Cornwall	PM10 Memorial Pk Bedford/Third	8465	0	0	2	4	12	69	6.1	298	75.5			
63200	Thunder Bay	MOT 615 James St S	8156	2	3	4	7	19	83	8.9	318	92.0			
71068	Sault Ste Marie	Wm. Merrifield School	8638	0	1	2	5	15	64	6.1	184	34.8			
77203	Sudbury	Science North	6855	1	2	3	4	8	54	4.9	170	44.5			

TABLE 11 Nitrogen Oxides (NOx) Statistics (1997)
Unit: parts per billion (ppb)

Sta #	City	Location	Valid hrs	P E R C E N T I L E S							Maximum	
				10%	30%	50%	70%	90%	99%	Mean	1h	24h
12008	Windsor	467 University Av W	8501	16	23	31	43	71	160	39.3	354	159.8
14064	Sarnia	Centennial Pk, Front St/Cn Tracks	8405	9	13	19	28	49	101	24.9	266	104.7
15013	Parkhill	Puc Bldg	8445	4	5	7	10	19	40	9.6	124	41.5
15025	London	900 Highbury Ave.	7946	9	14	19	27	46	100	24.4	322	113.1
22086	Nanticoke	Chesapeake Rd(3 Km S of Hwy 3)	8696	4	6	8	11	18	36	9.7	78	35.5
22901	Long Point	Provincial Park	8241	2	3	5	7	15	34	6.9	101	37.2
26060	Kitchener	West Ave/Homewood	8282	6	9	14	21	37	88	19.2	432	80.9
27067	St Catharines	Argyle Cres (Pump Stn)	8170	9	13	17	24	46	147	24.5	409	118.2
29000	Hamilton	Elgin/Kelly St	8687	9	15	22	33	55	137	29.5	448	106.7
29102	Hamilton	467 Beach Blvd	6742	7	19	33	49	77	156	39.5	352	107.8
29114	Hamilton	Vickers Rd/East 18Th St	8228	7	11	15	23	45	98	21.9	213	85.7
29118	Hamilton	Main St W/Hwy403	8152	10	16	25	42	93	247	42.1	461	157.6
31303	Toronto	Toronto (Osgoode)	8388	26	41	55	75	113	206	64.3	424	178.4
33003	Scarborough	Lawrence/Kennedy	8360	13	25	37	53	92	207	47.5	535	202.5
34020	North York	Hendon Ave (Yonge/Finch)	8459	8	16	28	44	75	160	36.7	384	132.8
35003	Etobicoke	Elmcrest Rd (Centennial Pk)	8499	14	22	32	48	89	211	45.2	597	137.8
35033	Etobicoke	Evans/Arnold Av	8617	22	35	49	67	116	265	62.1	600	154.7
36030	York	Clearview Ht. GS/Keele St	6833	15	23	32	47	88	256	45.9	658	170.9
44008	Burlington	Hwy2/North Shore Blvd E	8616	5	11	17	28	54	136	25.6	340	112.4
44015	Oakville	Bronte Rd/Woburn Cres	8673	12	17	24	35	63	156	32.8	348	101.1
45025	Oshawa	Ps Ritson Rd/Olive Av	8462	10	17	27	40	68	161	34.9	330	111.7
48002	Stouffville	Hwy47/E of Hwy48	8498	4	7	10	16	31	74	14.6	238	68.3
49010	Dorset	Hwy 117/Paint Lake Rd	8646	2	2	3	4	8	23	4.3	71	29.0
51001	Ottawa	McD Gds, Rideau/Wurtenburg St	8615	1	6	11	20	42	106	18.0	409	83.8
56051	Cornwall	Memorial Pk Bedford/Third	8465	0	4	7	14	32	102	14.2	396	118.2
63200	Thunder Bay	MTQ 615 James St S	8156	5	9	14	21	43	127	20.9	374	122.3
71068	Sault Ste Marie	Wm. Merrifield School	8731	2	5	11	19	39	95	16.7	220	60.3
77203	Sudbury	Science North	6855	4	6	8	12	22	91	12.5	215	74.2

TABLE 12 Ozone (O₃) Statistics (1997)

Unit: parts per billion (ppb)

Unit: parts per billion (ppb)

Stn #	City	Location	Valid hrs	P E C E N T I L E										Arith.		Maximum		# of times above Criterion
				10	30	50	70	90	99	Mean	1h	24h	1h	24h				
12008	Windsor	467 University Av W	8609	2	8	17	28	44	74	20.7	107	64.1	56					
12016	Windsor	College/South St	8576	1	6	14	24	40	69	17.9	105	60.4	30					
13021	Merlin	MOE Water Pump Stn Middle Rd	8699	6	17	26	34	49	77	27.0	107	77.0	67					
14064	Samia	Centennial Pk, Front St/Cn Tracks	8536	4	15	24	32	44	70	24.5	105	64.5	15					
14118	Mandamin	Concession Rd 26	8353	8	19	27	35	47	75	27.9	107	69.5	57					
15009	Longwoods	Longwoods Conservation	8567	5	16	25	33	47	72	25.9	97	58.9	38					
15013	Parkhill	Puc Bldg	8557	8	19	28	35	49	77	28.3	112	76.3	55					
15020	Grand Bend	Water Treatment Plant	8565	11	23	31	38	50	80	31.2	146	70.7	78					
15025	London	900 Highbury Ave.	8524	4	13	21	29	45	74	22.8	97	76.8	48					
18007	Tiverton	Concession Rd 2 Lot A	8663	15	26	32	38	48	77	32.5	146	80.0	63					
22071	Simcoe	Experimental Farm	8331	9	19	27	35	50	79	28.6	106	82.3	62					
22901	Long Point	Provincial Park	6830	16	27	32	40	58	94	35.2	119	86.8	171					
26060	Kitchener	West Ave/Homewood	8571	2	14	22	31	44	68	23.4	88	73.7	20					
27067	St Catharines	Argyle Cres (Pump Stn)	8287	1	11	19	27	42	68	20.9	92	65.4	16					
29000	Hamilton	Elgin/Kelly St	8706	1	8	15	24	38	66	18.1	88	72.1	15					
29114	Hamilton	Vickers Rd/East 18Th St	8683	2	12	21	29	43	73	22.2	100	80.0	30					
29118	Hamilton	Main St W/Hwy403	8448	1	8	16	25	38	68	18.6	87	74.5	17					
31190	Toronto	CN Tower, 301 Front St W	8558	17	28	35	44	61	89	37.3	119	91.5	188					
31303	Toronto	Toronto (Osgoode)	8150	2	6	11	18	28	50	13.7	86	49.1	3					
33003	Scarborough	Lawrence/Kennedy	8081	1	7	15	24	39	69	18.0	102	55.1	31					
34020	North York	Hendon Ave (Yonge/Finch)	8422	3	11	20	29	42	68	21.6	95	65.2	26					
35003	Etobicoke	Elmcrest Rd (Centennial Pk)	8345	3	8	16	26	40	68	19.4	96	65.3	29					
35033	Etobicoke	Evans/Arnold Av	8528	2	6	14	22	37	70	17.2	105	59.0	39					
36030	York	Clearview Hl. GS/Keele St	8296	2	7	16	25	39	67	18.4	103	56.4	33					
44008	Burlington	Hwy2/North Shore Blvd E	8575	3	11	20	28	43	68	21.7	92	66.9	14					
44015	Oakville	Bronte Rd/Woburn Cres	8695	2	9	19	28	42	69	20.8	101	71.9	26					
45025	Oshawa	Ps Ritson Rd/Olive Av	8547	4	14	22	30	41	68	23.2	97	59.8	38					
46110	Mississauga	Queensway W/Hurontario St	8366	2	9	18	27	40	69	20.0	100	68.6	28					
48002	Stouffville	Hwy47/E of Hwy48	8632	10	22	30	37	49	76	30.1	108	74.2	54					
49010	Dorset	Hwy 117/Paint Lake Rd	8662	13	24	31	37	47	68	30.9	108	57.8	23					
51001	Ottawa	McD Gds, Rideau/Wurtemburg St	8653	2	12	20	27	39	60	20.5	90	70.5	5					
52020	Kingston	133 Dalton Ave.	8739	1	10	19	27	39	69	20.1	100	67.8	29					
56051	Cornwall	Memorial Pk Bedford/Third	8755	3	14	22	30	41	67	22.8	96	66.2	14					

TABLE 12 Ozone (O₃) Statistics (1997)
Unit: parts per billion (ppb)

Sta #	City	Location	Valid hrs	P E C E N T I L E							Arith. Mean	Maximum		# of times above Criterion 1 h
				10	30	50	70	90	99			1h	24h	
59006	Peterborough	City Hall, 500 George St	4064	13	25	31	36	44	62		INS	85	55.0	2
62200	Fort Frances	Robert Moore PS	8157	14	23	30	35	44	57		29.0	77	53.2	0
63200	Thunder Bay	MOT 615 James St S	8572	4	16	25	32	40	57		23.9	75	58.3	0
71068	Sault Ste Marie	Wm. Merrifield School	8502	6	17	25	32	42	62		24.9	83	62.0	3
75010	North Bay	Chippewa St	8675	6	19	27	34	45	66		26.6	100	67.6	30
77203	Sudbury	Science North	8678	12	21	27	33	44	69		28.0	103	77.1	33

TABLE 13 Inhalable Particles (PM₁₀) Statistics (1997)Unit= micrograms/m³

Sta	City	Location	Valid Hrs	10	30	50	70	90	99	Mean	1 h	24 h	Above Criteria
12016	Windsor	College/South St	8655	10	16	22	30	50	128	27.7	336	127.3	35
14064	Samia	Centennial Pk, Front St/Cn Tracks	8557	6	10	14	21	36	66	18.1	219	61.8	6
15025	London	London - AQI	8308	7	11	15	21	35	60	18.4	126	68.0	4
29000	Hamilton	Elgin/Kelly St	8620	7	11	16	22	35	74	19.4	207	70.6	7
29531	Hamilton	Ji Case	8164	8	18	28	43	80	217	39.4	801	133.0	92
29561	Hamilton	Hamilton - Homerside	7637	7	12	17	23	37	64	20.0	129	49.6	0
33003	Scarborough	Lawrence/Kennedy	8289	7	12	16	22	34	58	19.0	138	58.3	1
35003	Etobicoke	Elmcrest Rd (Centennial Pk)	3706	5	10	14	19	32	57	16.5	84	54.4	1
35033	Etobicoke	Evans/Arnold Av	7303	6	12	16	22	34	64	18.5	101	55.4	2
48002	Stouffville	Hwy47/E of Hwy48	3828	5	9	12	18	28	52	15.2	148	52.2	1
52020	Kingston	Churchill Pk, Napier St	7672	2	7	13	22	45	115	20.4	486	102.3	15
71068	Sault Ste Marie	Wm. Merrifield School	8722	4	7	11	17	36	90	16.8	359	106.5	8

Note: measurements made by TEOM sampler

TABLE 14 Respirable Particles (PM_{2.5}) Statistics (1997)Unit= micrograms/m³

Site	City	Location	Valid Hrs	PERCENTILES							Arith		Maximum	
				10	30	50	70	90	99	Mean	1 h	24 h		
18007	Tiverton	Concession Rd 2 Lot A	2854	5	7	8	11	17	38	INS	60	37.8		
22071	Simcoe	Experimental Farm	2722	4	6	9	12	20	44	INS	60	34.8		
26060	Kitchener	West Ave/Homewood	2000	7	10	13	17	21	31	INS	47	26.8		
27067	St Catharines	Argyle Cres (Pump Stn)	1575	4	7	10	12	17	26	INS	46	20.6		
29114	Hamilton	Vickers Rd/East 18Th St	1998	4	7	10	14	20	33	INS	49	30.5		
31303	Toronto	Toronto (Osgoode)	4966	5	9	12	17	29	50	INS	64	43.7		
34020	North York	Hendon Ave (Yonge/Finch)	4011	4	7	10	14	22	42	INS	60	37.5		
35033	Etobicoke	Evans/Arnold Av	8410	5	8	11	15	24	43	13.0	72	43.6		
45025	Oshawa	Ps Ritson Rd/Olive Av	6071	4	7	10	14	25	46	12.5	71	50.5		
46110	Mississauga	Queensway W/Hurontario St	8310	4	6	8	12	20	38	10.7	76	38.9		
51001	Ottawa	Mcd Gds, Rideau/Wurtemburg St	965	4	6	9	12	18	32	INS	45	25.5		

Note: measurements made by TEOM sampler

TABLE 15 Total Suspended Particulate (TSP) Statistics (1997)

Unit= micrograms/cubic metre

TSP 24-hour AAQC is 120 micrograms/m³

TSP 1-year AAQC is 60 micrograms/m³

TSP 1-year AAQC is 60 micrograms/m³

Stn	City	Location	Number of Samples	P E R C E N T I L E S										Arith		Geom		# of Times Above Criterion	
				10%	30%	50%	70%	90%	99%	Max.	Mean	Max.	Mean	24h	1y				
11001	St Marys	309 Thomas St	54	25.0	35.8	47.0	63.6	93.7	144.5	154.0	54.5	154.0	54.5	47.2	2	0			
12007	Windsor	Wright/Water St	57	34.4	51.0	70.0	79.0	100.4	129.2	141.0	67.6	141.0	67.6	61.3	1	1			
12008	Windsor	467 University Av W	59	34.8	44.4	58.0	68.6	83.8	123.0	145.0	59.6	145.0	59.6	56.1	1	0			
12011	Windsor	Drouillard Rd/Richmond St	47	35.6	56.6	72.0	83.0	100.4	146.0	157.0	71.1	157.0	71.1	64.9	2	1			
12013	Windsor	Filtrat Plt 3665 Wyandotte St E	52	41.0	52.0	69.5	96.7	144.0	189.2	203.0	80.9	203.0	80.9	71.7	10	1			
12015	Windsor	Sewage Stn Hwy 18/Prospect	53	45.6	67.6	88.0	104.6	141.2	239.2	286.0	93.9	286.0	93.9	84.2	10	1			
12016	Windsor	College/South St	56	35.5	52.5	67.0	79.5	126.0	231.7	263.0	77.5	263.0	77.5	66.8	6	1			
12038	Windsor	2885 Howard Av	56	53.5	75.0	91.5	117.5	180.0	337.9	433.0	108.2	433.0	108.2	94.9	16	1			
12053	Amherstburg	415 Front St	54	26.3	36.9	48.0	67.0	93.1	138.0	155.0	55.1	155.0	55.1	48.6	2	0			
12055	Amherstburg	Duff St (E End)	47	29.6	40.6	54.0	70.0	88.6	97.3	101.0	55.9	101.0	55.9	51.7	0	0			
12058	Windsor	Columbus Centre	56	30.0	46.5	58.0	71.5	100.5	465.8	881.0	76.2	881.0	76.2	59.1	4	0			
12060	Windsor	2335 Dougall Ave	39	29.4	42.4	51.0	58.8	77.4	120.8	133.0	INS	133.0	INS	INS	1	INS			
12061	Amherstburg	1.4 km NW Allied Chem	55	41.8	54.2	73.0	87.4	133.2	179.8	210.0	76.0	210.0	76.0	68.6	7	1			
14016	Courtright	Hwy40 (OPP Lambton GS)	59	21.0	29.8	40.0	49.8	66.0	106.8	123.0	42.5	123.0	42.5	38.0	1	0			
14030	Corunna	Rr1 (W of House)	53	18.2	23.6	29.0	43.4	81.4	98.4	102.0	39.3	102.0	39.3	33.6	0	0			
14151	Sarnia	David/Front St	49	24.8	33.0	48.0	59.8	75.2	98.6	101.0	48.7	101.0	48.7	43.8	0	0			
15025	London	900 Highbury Ave.	55	23.8	32.2	44.0	54.0	70.8	96.8	106.0	46.2	106.0	46.2	42.2	0	0			
17014	Beachville	Cyanamide Rd (Gordon Prop)	52	26.0	41.3	46.5	62.0	72.9	100.9	107.0	50.3	107.0	50.3	46.3	0	0			
17015	Beachville	26 Vine St (MOE Trailer)	51	33.0	42.0	52.0	66.0	90.0	127.5	128.0	57.4	128.0	57.4	51.9	2	0			
17020	Ingersoll	Hwy 2 Rr 2 (J Spruel Prop)	50	42.6	51.4	71.5	83.1	125.2	168.1	172.0	75.8	172.0	75.8	67.3	7	1			
17021	Embro	Oxford Cty Rd 6 (Hesston Farm)	35	31.4	51.0	73.0	111.8	135.6	188.0	188.0	INS	188.0	INS	INS	7	INS			
17215	Beachville	26 Vine St (MOE Trailer)	46	48.0	71.0	86.5	99.5	120.0	157.2	159.0	85.1	159.0	85.1	77.6	5	1			
17315	Beachville	26 Vine St (MOE Trailer)	50	23.9	30.7	41.5	53.6	69.2	86.6	89.0	44.2	89.0	44.2	41.0	0	0			
22092	Nanticoke	Rainham Rd/Sandusk Rd	59	18.8	29.0	37.0	48.6	64.6	113.6	142.0	42.0	142.0	42.0	37.2	1	0			
22904	Nanticoke	Walpole S Ps Sandusk Rd	55	24.0	30.2	37.0	48.8	72.4	98.6	118.0	43.1	118.0	43.1	39.1	0	0			
22907	Nanticoke	Rainham Rd (Near Stelco Gate)	50	34.3	43.4	52.0	69.3	99.2	137.1	142.0	59.8	142.0	59.8	53.9	3	0			
22964	Nanticoke	N 2 Km Nanticoke GS	36	21.0	29.5	39.0	51.0	76.5	127.5	146.0	INS	146.0	INS	INS	1	INS			
26044	Kitchener	134 Lancaster St	43	31.2	38.6	47.0	58.0	88.2	124.9	135.0	54.3	135.0	54.3	49.7	1	0			
26046	Kitchener	778 Guelph St	43	27.0	34.0	41.0	56.2	70.8	108.7	120.0	47.1	120.0	47.1	42.4	0	0			
27045	Welland	337 Alberta/Devon St	60	28.9	37.0	46.0	56.3	72.4	90.0	90.0	49.0	90.0	49.0	45.9	0	0			
27052	Thorold	185 Queen St S	54	40.5	61.9	79.0	108.3	159.0	220.9	241.0	91.8	241.0	91.8	80.8	11	1			
27055	Niagara Falls	Stp Grounds, Stanley Av, Niagara	50	39.0	50.0	59.0	68.3	96.6	109.5	111.0	62.9	111.0	62.9	59.5	0	0			
29000	Hamilton	Elgin/Kelly St	57	33.6	47.0	63.0	71.0	111.2	159.3	161.0	66.8	161.0	66.8	60.3	5	1			
29009	Hamilton	Kenilworth	56	34.0	41.0	50.5	61.0	80.0	99.9	101.0	54.5	101.0	54.5	51.6	0	0			
29011	Hamilton	Burlington/Leeds	57	48.6	65.8	79.0	92.2	128.0	176.1	180.0	84.9	180.0	84.9	79.4	7	1			
29012	Hamilton	Burlington/Wellington	53	34.8	50.4	60.0	75.8	92.6	122.4	125.0	63.8	125.0	63.8	58.9	1	0			
29025	Hamilton	Barton/Wentworth	58	36.4	49.1	62.5	76.0	115.3	155.2	166.0	68.7	166.0	68.7	63.0	4	1			
29102	Hamilton	467 Beach Blvd	57	39.6	58.0	79.0	95.0	128.4	174.0	174.0	81.1	174.0	81.1	73.6	7	1			

TABLE 15 Total Suspended Particulate (TSP) Statistics (1997)

Unit= micrograms/cubic metre

TSP 24-hour AAQC is 120 micrograms/m³TSP 1-year AAQC is 60 micrograms/m³

Stn	City	Location	Number of Samples	P E R C E N T I L E S							Arith		Geom Mean	# of Times Above Criterion	
				10%	30%	50%	70%	90%	99%	Max.	Mean	Max.		24h	1y
29111	Greenville	ofield Rd/Hwy 5	49	35.6	57.8	74.0	99.8	163.8	280.0	291.0	90.3	291.0	74.7	9	1
29113	Hamilton	Gertrude/Depew	54	49.5	63.7	75.0	100.2	153.6	223.8	227.0	90.6	227.0	81.7	10	1
29114	Hamilton	Vickers Rd/East 18Th St	52	26.2	35.3	44.0	58.0	90.4	106.4	111.0	51.0	111.0	46.5	0	0
29118	Hamilton	Main St W/Hwy403	54	24.6	32.9	41.0	54.2	76.0	126.6	178.0	47.3	178.0	42.3	1	0
29119	Hamilton	Morley St/Parkdale Av	54	43.3	62.9	77.0	90.4	110.0	133.2	138.0	77.8	138.0	73.1	4	1
29122	Hamilton	Dundurn/York	52	24.2	33.0	42.0	51.0	58.8	70.0	72.0	41.8	72.0	39.4	0	0
29143	Hamilton	Keefer Court (MOE Air Shop)	59	49.4	59.4	74.0	91.6	120.0	147.4	152.0	81.5	152.0	76.7	5	1
31045	Toronto	Bruce Ps 51 Larchmount Av	36	31.0	43.5	51.0	56.5	66.0	114.8	133.0	INS	133.0	INS	1	INS
31058	Toronto	Mosley/Leslie Sts	122	36.1	44.0	56.0	68.4	91.8	123.1	149.0	60.1	149.0	55.8	2	0
31065	Toronto	633 Eastern Av	162	20.0	38.0	51.5	65.4	96.4	167.6	247.0	56.0	247.0	46.7	8	0
31082	Toronto	Works Dept , 138 Hamilton Av	169	34.8	48.4	57.0	69.2	101.2	150.6	167.0	63.0	167.0	57.8	7	0
46047	Mississauga	Mississauga Rd S/Port St	50	49.0	61.0	72.5	92.3	112.6	155.2	167.0	78.6	167.0	73.9	4	1
46117	Mississauga	Meadow Pk, Apple Lane Club	55	19.4	32.0	36.0	51.8	79.2	121.7	126.0	46.0	126.0	39.9	1	0
63046	Thunder Bay	Bombardier Montreal St	59	19.6	33.0	45.0	61.0	95.8	127.5	142.0	50.5	142.0	42.7	1	0
71042	Sault Ste Marie	Pumphouse, Bonney St	55	37.4	63.2	81.0	140.2	191.6	388.1	394.0	113.8	394.0	90.1	21	1
72083	Hearst	Front/Quinton St	35	36.4	61.6	93.0	148.4	241.0	484.2	525.0	INS	525.0	INS	12	INS

TABLE 16 Lead (Pb) in TSP Statistics (1997)

Unit = micrograms/m³Pb 24-hour AAQC is 2.0 micrograms/m³

Stn	City	Location	Number of Samples	P E R C E N T I L E S							Arith Mean	Geom Mean	# of times Above Criterion	
				10%	30%	50%	70%	90%	99%	Max			24 h	
12007	Windsor	Wright/Water St	57	0.005	0.005	0.005	0.020	0.034	0.050	0.050	0.015	0.010	0	0
12008	Windsor	467 University Av W	59	0.005	0.005	0.005	0.020	0.030	0.048	0.060	0.013	0.009	0	0
12011	Windsor	Drouillard Rd/Richmond St	47	0.005	0.005	0.005	0.020	0.034	0.051	0.060	0.014	0.010	0	0
12013	Windsor	Filtrat Ph 3665 Wyandotte St E	52	0.005	0.005	0.013	0.020	0.040	0.080	0.090	0.019	0.012	0	0
12015	Windsor	Sewage Stn Hwy 18/Prospect	56	0.005	0.005	0.005	0.020	0.040	0.094	0.110	0.019	0.012	0	0
12016	Windsor	College/South St	56	0.005	0.005	0.005	0.020	0.040	0.101	0.150	0.019	0.012	0	0
12038	Windsor	2885 Howard Av	56	0.005	0.005	0.020	0.045	0.105	0.627	0.770	0.062	0.023	0	0
12058	Windsor	Columbus Centre	56	0.005	0.005	0.020	0.020	0.030	0.060	0.060	0.019	0.014	0	0
12060	Windsor	2335 Dougall Ave	38	0.005	0.005	0.005	0.020	0.033	0.303	0.440	INS	INS	0	0
12061	Amherstburg	1.4 km NW Allied Chem	55	0.005	0.005	0.005	0.020	0.046	1.230	1.500	0.065	0.013	0	0
14016	Courtright	Hwy40 (OPP Lambton GS)	59	0.005	0.005	0.005	0.005	0.020	0.030	0.030	0.008	0.007	0	0
14030	Corunna	Rr1 (W of House)	53	0.005	0.005	0.005	0.005	0.020	0.040	0.040	0.009	0.007	0	0
15025	London	900 Highbury Ave.	59	0.005	0.005	0.005	0.005	0.020	0.020	0.020	0.008	0.007	0	0
27052	Thorold	185 Queen St S	54	0.005	0.005	0.005	0.020	0.037	0.040	0.040	0.014	0.010	0	0
29011	Hamilton	Burlington/Leeds	57	0.005	0.020	0.030	0.030	0.050	0.134	0.140	0.031	0.022	0	0
29025	Hamilton	Barton/Wentworth	58	0.005	0.005	0.020	0.020	0.050	0.079	0.090	0.021	0.013	0	0
29102	Hamilton	467 Beach Blvd	58	0.005	0.005	0.005	0.029	0.043	0.070	0.070	0.019	0.012	0	0
29114	Hamilton	Vickers Rd/East 18Th St	53	0.005	0.005	0.005	0.020	0.040	0.064	0.080	0.015	0.010	0	0
31045	Toronto	Bruce Ps 51 Larchmount Av	36	0.005	0.005	0.005	0.020	0.030	0.092	0.110	INS	INS	0	0
31058	Toronto	Mosley/Leslie Sts	122	0.020	0.040	0.070	0.140	0.319	1.582	2.200	0.154	0.082	1	1
31065	Toronto	633 Eastern Av	162	0.005	0.005	0.030	0.060	0.230	2.163	6.300	0.144	0.031	2	2
31082	Toronto	Works Dept , 138 Hamilton Av	169	0.005	0.005	0.005	0.020	0.040	0.100	0.140	0.016	0.009	0	0
46047	Mississauga	Mississauga Rd S/Port St	50	0.384	0.742	1.350	2.030	6.020	8.873	10.000	2.113	1.285	15	15
46117	Mississauga	Meadow Pk, Apple Lane Club	56	0.005	0.005	0.005	0.005	0.020	0.035	0.040	0.009	0.007	0	0
71042	Sault Ste Marie	Pumphouse, Bonney St	55	0.005	0.005	0.005	0.005	0.026	0.525	1.000	0.029	0.007	0	0

TABLE 17 Iron (Fe) in TSP Statistics (1997)

Unit: micrograms/m³

Site	City	Location	Number of Samples	PERCENTILES							Arith. Mean	Geom. Mean
				10%	30%	50%	70%	90%	99%	Max		
12007	Windsor	Wright/Water St	57	0.60	0.98	1.60	1.90	2.86	5.22	5.50	1.67	1.38
12008	Windsor	467 University Av W	59	0.40	0.60	0.80	0.96	1.50	2.51	2.80	0.90	0.79
12011	Windsor	Drouillard Rd/Richmond St	47	0.58	0.90	1.30	1.90	2.68	3.41	3.50	1.47	1.21
12013	Windsor	Filtrat Pk 3665 Wyandotte St E	52	0.50	0.90	1.35	2.21	5.64	10.09	13.00	2.35	1.47
12015	Windsor	Sewage Stn Hwy 18/Prospect	56	0.75	1.10	1.40	1.90	3.15	7.42	10.00	1.82	1.46
12016	Windsor	College/South St	56	0.45	0.75	1.30	1.70	2.20	4.66	5.70	1.39	1.12
12038	Windsor	2885 Howard Av	56	1.85	3.70	6.25	9.85	20.00	42.25	45.00	9.01	5.85
12058	Windsor	Columbus Centre	56	0.50	0.70	1.05	1.45	2.05	5.00	7.20	1.26	1.02
12060	Windsor	2335 Dougall Ave	38	0.50	0.70	0.80	1.29	1.76	3.46	3.90	INS	INS
12061	Amherstburg	1.4 km NW Allied Chem	55	0.64	0.90	1.30	1.58	2.88	4.17	4.60	1.48	1.25
14016	Courtright	Hwy 40 (OPP Lambton GS)	59	0.05	0.20	0.20	0.30	0.50	0.84	0.90	0.28	0.22
14030	Corunna	Rr1 (W of House)	53	0.05	0.05	0.20	0.30	0.78	1.00	1.00	0.29	0.17
15025	London	900 Highbury Ave.	59	0.05	0.20	0.30	0.40	0.52	0.90	0.90	0.32	0.25
27052	Thorold	185 Queen St S	54	0.40	0.70	1.10	1.50	2.87	4.44	4.60	1.42	1.08
29011	Hamilton	Burlington/Leeds	57	1.60	2.08	2.70	3.70	6.28	11.44	12.00	3.48	2.96
29025	Hamilton	Barton/Wentworth	58	0.57	0.80	1.10	2.00	5.26	10.37	11.00	2.09	1.40
29102	Hamilton	467 Beach Blvd	58	0.50	1.20	2.30	3.58	4.83	8.06	10.00	2.62	1.90
29114	Hamilton	Vickers Rd/East 18Th St	53	0.20	0.30	0.40	0.60	1.92	4.82	5.60	0.84	0.48
31058	Toronto	Mosley/Leslie Sts	122	0.30	0.50	0.60	0.90	1.50	2.20	2.40	0.77	0.64
46047	Mississauga	Mississauga Rd S/Port St	28	0.47	0.70	0.90	1.38	1.79	2.71	2.90	INS	INS
46117	Mississauga	Meadow Pk, Apple Lane Club	56	0.05	0.20	0.30	0.40	0.75	1.20	1.20	0.36	0.25
71042	Sault Ste Marie	Pumphouse, Bonney St	55	1.08	1.92	3.70	6.04	13.20	42.56	62.00	6.48	3.67

TABLE 18 Manganese (Mn) in TSP Statistics (1997)

Unit = micrograms/m³Mn 24-hour AAQC is 2.5 micrograms/m³

Site	City	Location	Number of Samples	PERCENTILES							Arith Mean	Geom Mean	# of times Above Criterion 24 h
				10%	30%	50%	70%	90%	99%	Max			
12007	Windsor	Wright/Water St	57	0.015	0.027	0.042	0.057	0.083	0.110	0.110	0.046	0.038	0
12008	Windsor	467 University Av W	59	0.014	0.020	0.026	0.033	0.052	0.090	0.100	0.031	0.026	0
12011	Windsor	Drouillard Rd/Richmond St	47	0.014	0.028	0.044	0.059	0.128	0.175	0.180	0.056	0.041	0
12013	Windsor	Filtat Pk 3665 Wyandotte St E	52	0.012	0.030	0.051	0.096	0.278	0.507	0.640	0.104	0.055	0
12015	Windsor	Sewage Stn Hwy 18/Prospect	56	0.023	0.032	0.043	0.058	0.090	0.205	0.260	0.053	0.043	0
12016	Windsor	College/South St	56	0.017	0.028	0.042	0.054	0.079	0.134	0.150	0.045	0.037	0
12038	Windsor	2885 Howard Av	56	0.037	0.062	0.090	0.160	0.250	0.523	0.660	0.130	0.096	0
12058	Windsor	Columbus Centre	56	0.014	0.017	0.026	0.037	0.058	0.093	0.100	0.031	0.026	0
12060	Windsor	2335 Dougall Ave	38	0.016	0.020	0.024	0.035	0.062	0.081	0.082	INS	INS	0
12061	Amherstburg	1.4 km NW Allied Chem	55	0.014	0.025	0.035	0.051	0.086	0.199	0.280	0.046	0.035	0
14016	Courtright	Hwy40 (OPP Lambton GS)	59	0.002	0.005	0.007	0.009	0.014	0.019	0.022	0.008	0.006	0
14030	Corunna	Rt1 (W of House)	53	0.003	0.004	0.007	0.012	0.019	0.024	0.025	0.009	0.007	0
15025	London	900 Highbury Ave.	59	0.006	0.008	0.011	0.015	0.024	0.035	0.037	0.013	0.011	0
27052	Thorold	185 Queen St S	54	0.016	0.029	0.046	0.067	0.120	0.149	0.160	0.056	0.044	0
29011	Hamilton	Burlington/Leeds	57	0.116	0.140	0.200	0.260	0.444	0.695	0.740	0.242	0.206	0
29025	Hamilton	Barton/Wentworth	58	0.041	0.069	0.091	0.139	0.436	0.702	0.730	0.165	0.110	0
29102	Hamilton	467 Beach Blvd	58	0.029	0.062	0.125	0.190	0.263	0.425	0.510	0.143	0.105	0
29114	Hamilton	Vickers Rd/East 18Th St	53	0.012	0.018	0.024	0.041	0.120	0.230	0.240	0.045	0.028	0
31058	Toronto	Mosley/Leslie Sts	122	0.014	0.021	0.029	0.036	0.065	0.095	0.110	0.034	0.029	0
46047	Mississauga	Mississauga Rd S/Port St	28	0.013	0.020	0.030	0.039	0.064	0.075	0.077	INS	INS	0
46117	Mississauga	Meadow Pk, Apple Lane Club	56	0.006	0.010	0.012	0.018	0.035	0.052	0.053	0.017	0.013	0
71042	Sault Ste Marie	Pumphouse, Bonney St	55	0.064	0.152	0.240	0.390	0.674	1.192	1.300	0.323	0.219	0

TABLE 19 Nickel (Ni) in TSP Statistics (1997)

Unit = micrograms/m³NI 24-hour AAQC is 2.0 micrograms/m³

Site	City	Location	Number of Samples	P E R C E N T I L E S								Arith		Geom	# of times Above Criterion 24 h
				10%	30%	50%	70%	90%	99%	Max	Mean	Mean			
12007	Windsor	Wright/Water St	57	0.001	0.003	0.004	0.006	0.008	0.012	0.015	0.005	0.004	0.004	0	
12008	Windsor	467 University Av W	59	0.001	0.001	0.003	0.005	0.007	0.015	0.017	0.004	0.003	0.003	0	
12011	Windsor	Drouillard Rd/Richmond St	47	0.001	0.003	0.005	0.006	0.010	0.017	0.018	0.005	0.004	0.004	0	
12013	Windsor	Filtrat Pft 3665 Wyandotte St E	52	0.002	0.004	0.005	0.007	0.013	0.025	0.030	0.007	0.005	0.005	0	
12015	Windsor	Sewage Stn Hwy 18/Prospect	56	0.001	0.003	0.005	0.006	0.010	0.016	0.019	0.005	0.004	0.004	0	
12016	Windsor	College/South St	56	0.001	0.003	0.005	0.007	0.010	0.015	0.016	0.005	0.004	0.004	0	
12038	Windsor	2885 Howard Av	56	0.003	0.008	0.012	0.019	0.035	0.143	0.200	0.020	0.011	0.011	0	
12058	Windsor	Columbus Centre	56	0.001	0.001	0.002	0.004	0.008	0.014	0.015	0.003	0.002	0.002	0	
12060	Windsor	2335 Dougall Ave	38	0.002	0.003	0.005	0.006	0.008	0.013	0.014	INS	INS	INS	0	
12061	Amherstburg	1.4 km NW Allied Chem	55	0.001	0.004	0.005	0.006	0.010	0.019	0.019	0.005	0.004	0.004	0	
14016	Courtright	Hwy40 (OPP Lambton GS)	59	0.001	0.001	0.004	0.007	0.017	0.032	0.035	0.006	0.004	0.004	0	
14030	Corunna	Rr1 (W of House)	53	0.001	0.001	0.002	0.004	0.006	0.010	0.012	0.003	0.002	0.002	0	
15025	London	900 Highbury Ave.	59	0.002	0.003	0.004	0.005	0.007	0.009	0.010	0.004	0.003	0.003	0	
27052	Thorold	185 Queen St S	54	0.001	0.003	0.006	0.008	0.032	0.101	0.120	0.013	0.006	0.006	0	
29011	Hamilton	Burlington/Leeds	57	0.001	0.006	0.007	0.010	0.013	0.023	0.026	0.008	0.006	0.006	0	
29025	Hamilton	Barton/Wentworth	58	0.001	0.002	0.004	0.006	0.011	0.020	0.026	0.005	0.004	0.004	0	
29102	Hamilton	467 Beach Blvd	58	0.001	0.002	0.003	0.007	0.010	0.025	0.031	0.005	0.003	0.003	0	
29114	Hamilton	Vickers Rd/East 18th St	53	0.001	0.001	0.001	0.002	0.004	0.008	0.009	0.002	0.002	0.002	0	
31058	Toronto	Mosley/Leslie Sts	122	0.001	0.001	0.002	0.004	0.006	0.013	0.014	0.003	0.002	0.002	0	
46047	Mississauga	Mississauga Rd S/Port St	28	0.001	0.001	0.002	0.006	0.012	0.016	0.017	INS	INS	INS	0	
46117	Mississauga	Meadow Pk, Apple Lane Club	56	0.001	0.001	0.002	0.004	0.006	0.008	0.009	0.003	0.002	0.002	0	
71042	Sault Ste Marie	Pumphouse, Bonney St	55	0.001	0.001	0.004	0.006	0.016	0.030	0.033	0.006	0.003	0.003	0	

TABLE 20 Chromium (Cr) in TSP Statistics (1997)

Units = micrograms/m³

Cr 24-hour AAQC is 1.5 microgram/m³

Sta	City	Location	Number of Samples	P E R C E N T I L E S							Arith. Mean	Geom. Mean	Above Criterion 24 h
				10%	30%	50%	70%	90%	99%	Max			
12007	Windsor	Wright/Water St	57	0.003	0.007	0.009	0.012	0.015	0.023	0.025	0.010	0.008	0
12008	Windsor	467 University Av W	59	0.001	0.003	0.005	0.008	0.011	0.012	0.012	0.006	0.004	0
12011	Windsor	Drouillard Rd/Richmond St	47	0.004	0.005	0.009	0.014	0.019	0.028	0.029	0.010	0.008	0
12013	Windsor	Filtrat Pkt 3665 Wyandotte St E	52	0.004	0.007	0.010	0.018	0.034	0.066	0.090	0.016	0.011	0
12015	Windsor	Sewage Stn Hwy 18/Prospect	56	0.006	0.008	0.010	0.013	0.019	0.049	0.050	0.012	0.010	0
12016	Windsor	College/South St	56	0.003	0.006	0.009	0.011	0.022	0.034	0.035	0.010	0.008	0
12038	Windsor	2885 Howard Av	56	0.009	0.020	0.034	0.050	0.094	0.233	0.260	0.047	0.029	0
12058	Windsor	Columbus Centre	56	0.003	0.006	0.009	0.012	0.018	0.032	0.041	0.010	0.007	0
12060	Windsor	2335 Dougall Ave	38	0.004	0.005	0.007	0.008	0.013	0.018	0.018	INS	INS	0
12061	Amherstburg	1.4 km NW Allied Chem	55	0.006	0.008	0.010	0.014	0.019	0.038	0.050	0.012	0.010	0
14016	Courtright	Hwy40 (OPP Lambton GS)	59	0.001	0.002	0.004	0.006	0.008	0.010	0.011	0.005	0.004	0
14030	Corunna	Rt1 (W of House)	53	0.001	0.001	0.003	0.005	0.008	0.010	0.010	0.004	0.003	0
15025	London	900 Highbury Ave.	59	0.001	0.003	0.003	0.005	0.008	0.013	0.014	0.004	0.003	0
27052	Thorold	185 Queen St S	54	0.035	0.135	0.220	0.417	2.020	4.111	4.800	0.619	0.239	7
29011	Hamilton	Burlington/Leeds	57	0.021	0.029	0.037	0.047	0.075	0.097	0.098	0.042	0.037	0
29025	Hamilton	Barton/Wentworth	58	0.008	0.013	0.017	0.026	0.059	0.104	0.110	0.027	0.019	0
29102	Hamilton	467 Beach Blvd	58	0.004	0.010	0.018	0.026	0.035	0.054	0.069	0.019	0.014	0
29114	Hamilton	Vickers Rd/East 18Th St	53	0.001	0.003	0.004	0.006	0.025	0.036	0.038	0.008	0.004	0
31058	Toronto	Mosley/Leslie Sts	122	0.001	0.005	0.006	0.010	0.016	0.027	0.028	0.008	0.006	0
46047	Mississauga	Mississauga Rd S/Port St	28	0.003	0.005	0.008	0.012	0.024	0.030	0.030	INS	INS	0
46117	Mississauga	Meadow Pk, Apple Lane Club	56	0.001	0.001	0.003	0.004	0.007	0.026	0.029	0.004	0.003	0
71042	Sault Ste Marie	Pumphouse, Bonney St	55	0.006	0.010	0.017	0.032	0.057	0.145	0.210	0.029	0.017	0

TABLE 21 Vanadium (V) in TSP Statistics (1997)

Unit = micrograms/m³V 24-hour AAQC is 2.0 micrograms/m³

Sta	City	Location	Number of Samples	P E R C E N T I L E S							Arith Mean	Geom Mean	# of times above Criterion 24 h
				10%	30%	50%	70%	90%	99%	Max			
12007	Windsor	Wright/Water St	57	0.001	0.002	0.004	0.006	0.012	0.020	0.027	0.006	0.004	0
12008	Windsor	467 University Av W	59	0.001	0.001	0.001	0.004	0.009	0.026	0.028	0.004	0.002	0
12011	Windsor	Drouillard Rd/Richmond St	47	0.001	0.001	0.004	0.007	0.012	0.030	0.030	0.005	0.003	0
12013	Windsor	Filtrat Pkt 3665 Wyandotte St E	52	0.001	0.003	0.006	0.011	0.021	0.027	0.027	0.009	0.005	0
12015	Windsor	Sewage Stn Hwy 18/Prospect	56	0.001	0.001	0.003	0.005	0.012	0.030	0.034	0.005	0.003	0
12016	Windsor	College/South St	56	0.001	0.002	0.005	0.009	0.026	0.031	0.032	0.008	0.005	0
12038	Windsor	2885 Howard Av	56	0.004	0.007	0.017	0.026	0.042	0.078	0.086	0.021	0.013	0
12058	Windsor	Columbus Centre	56	0.001	0.001	0.002	0.007	0.010	0.022	0.026	0.005	0.003	0
12060	Windsor	2335 Dougall Ave	38	0.001	0.002	0.004	0.008	0.013	0.028	0.032	INS	INS	0
12061	Amherstburg	1.4 km NW Allied Chem	55	0.001	0.001	0.002	0.006	0.013	0.025	0.029	0.005	0.003	0
14016	Courtright	Hwy40 (OPP Lambton GS)	59	0.001	0.001	0.002	0.008	0.028	0.063	0.068	0.010	0.003	0
14030	Corunna	Rr1 (W of House)	53	0.001	0.001	0.001	0.002	0.007	0.018	0.020	0.003	0.002	0
15025	London	900 Highbury Ave.	59	0.001	0.001	0.001	0.001	0.003	0.005	0.006	0.001	0.001	0
27052	Thorold	185 Queen St S	54	0.001	0.007	0.013	0.024	0.093	0.294	0.490	0.035	0.013	0
29011	Hamilton	Burlington/Leeds	57	0.001	0.005	0.008	0.012	0.023	0.047	0.049	0.010	0.006	0
29025	Hamilton	Barton/Wentworth	58	0.001	0.001	0.003	0.007	0.018	0.040	0.042	0.007	0.003	0
29102	Hamilton	467 Beach Blvd	58	0.001	0.001	0.005	0.011	0.021	0.026	0.028	0.008	0.004	0
29114	Hamilton	Vickers Rd/East 18Th St	53	0.001	0.001	0.001	0.004	0.010	0.014	0.016	0.004	0.002	0
31058	Toronto	Mostley/Leslie Sts	122	0.001	0.001	0.001	0.003	0.006	0.010	0.012	0.003	0.002	0
46047	Mississauga	Mississauga Rd S/Port St	28	0.001	0.002	0.005	0.006	0.012	0.025	0.025	INS	INS	0
46117	Mississauga	Meadow Pk, Apple Lane Club	56	0.001	0.001	0.001	0.003	0.006	0.019	0.021	0.003	0.002	0
71042	Sault Ste Marie	Pumphouse, Bonney St	55	0.001	0.002	0.007	0.018	0.037	0.085	0.120	0.015	0.006	0

TABLE 22 Copper (Cu) in TSP Statistics (1997)

Unit = micrograms/m³Cu 24-hour AAQC is 50 micrograms/m³

Sta	City	Location	Number of Samples	P E R C E N T I L E S							Arith Mean	Geom Mean	# of times Above Criterion 24 h
				10	30	50	70	90	99	Max			
12007	Windsor	Wright/Water St	57	0.01	0.01	0.02	0.03	0.04	0.06	0.06	0.02	0.02	0
12008	Windsor	467 University Av W	59	0.01	0.01	0.02	0.03	0.04	0.06	0.07	0.02	0.02	0
12011	Windsor	Drouillard Rd/Richmond St	47	0.01	0.02	0.03	0.04	0.05	0.07	0.07	0.03	0.03	0
12013	Windsor	Filrat Plt 3665 Wyandotte St E	52	0.01	0.02	0.02	0.03	0.04	0.04	0.05	0.02	0.02	0
12015	Windsor	Sewage Sta Hwy 18/Prospect	56	0.01	0.02	0.03	0.03	0.05	0.07	0.09	0.03	0.02	0
12016	Windsor	College/South St	56	0.01	0.01	0.02	0.03	0.05	0.08	0.09	0.02	0.02	0
12038	Windsor	2885 Howard Av	56	0.03	0.05	0.07	0.10	0.13	0.29	0.32	0.08	0.07	0
12058	Windsor	Columbus Centre	56	0.01	0.02	0.03	0.04	0.05	0.07	0.08	0.03	0.02	0
12060	Windsor	2335 Dougall Ave	38	0.01	0.02	0.03	0.05	0.07	0.09	0.09	INS	INS	0
12061	Amherstburg	1.4 km NW Allied Chem	55	0.01	0.01	0.02	0.03	0.05	0.08	0.10	0.03	0.02	0
14016	Courtright	Hwy40 (OPP Lambton GS)	59	0.07	0.15	0.21	0.31	0.48	0.77	0.89	0.25	0.20	0
14030	Corunna	Rr1 (W of House)	53	0.01	0.02	0.03	0.06	0.11	0.13	0.14	0.05	0.03	0
15025	London	900 Highbury Ave.	59	0.13	0.20	0.33	0.50	0.67	0.98	1.20	0.38	0.29	0
27052	Thorold	185 Queen St S	54	0.02	0.04	0.09	0.13	0.20	0.37	0.40	0.10	0.07	0
29011	Hamilton	Burlington/Leeds	57	0.05	0.06	0.08	0.09	0.12	0.64	0.87	0.10	0.08	0
29025	Hamilton	Barton/Wentworth	58	0.06	0.08	0.10	0.17	0.23	0.32	0.33	0.13	0.11	0
29102	Hamilton	467 Beach Blvd	58	0.02	0.04	0.05	0.07	0.11	0.13	0.14	0.06	0.05	0
29114	Hamilton	Vickers Rd/East 18Th St	53	0.02	0.02	0.03	0.04	0.05	0.07	0.09	0.03	0.03	0
31058	Toronto	Mosley/Leslie Sts	122	0.05	0.07	0.09	0.13	0.17	0.25	0.52	0.11	0.09	0
46047	Mississauga	Mississauga Rd S/Port St	28	0.03	0.07	0.08	0.13	0.16	0.25	0.27	INS	INS	0
46117	Mississauga	Meadow Pk, Apple Lane Club	56	0.10	0.12	0.14	0.17	0.20	0.22	0.22	0.14	0.13	0
71042	Sault Ste Marie	Pumphouse, Bonney St	55	0.07	0.11	0.13	0.16	0.27	0.35	0.36	0.15	0.13	0

TABLE 23 Nitrate (NO₃) in TSP Statistics (1997)Unit = micrograms/m³

Sta	City	Location	Number of Samples	P E R C E N T I L E S						Arith Mean	Geom Mean
				10%	30%	50%	70%	90%	99%	Max	
12007	Windsor	Wright/Water St	57	2.2	2.8	4.0	5.5	8.6	13.4	15.0	4.1
12008	Windsor	467 University Av W	59	2.4	3.4	4.8	6.8	9.4	15.4	16.6	4.8
12015	Windsor	Sewage Stn Hwy 18/Prospect	56	2.4	3.7	5.1	6.7	9.2	15.2	16.6	4.9
12016	Windsor	College/South St	56	2.5	3.4	4.6	6.2	8.7	14.3	16.1	4.6
12038	Windsor	2885 Howard Av	56	2.3	3.7	4.8	6.9	10.8	21.9	28.8	5.1
12053	Amherstburg	415 Front St	54	2.5	3.5	4.9	6.7	10.2	13.7	14.4	4.9
12058	Windsor	Columbus Centre	56	2.1	3.1	4.3	6.3	8.7	13.0	14.3	4.3
14016	Courtright	Hwy40 (OPP Lambton GS)	59	1.4	2.4	3.4	5.7	7.8	14.0	18.2	3.5
22904	Nanticoke	Walpole S Ps Sandusk Rd	55	1.8	3.7	5.4	7.4	10.2	12.1	12.2	4.8
29011	Hamilton	Burlington/Leeds	57	1.4	2.7	3.2	5.0	8.2	9.7	9.9	3.4
29025	Hamilton	Barton/Wentworth	58	1.5	2.6	4.1	5.7	9.2	13.2	14.6	3.8
29102	Hamilton	467 Beach Blvd	58	1.6	3.1	4.2	6.0	9.2	11.5	11.7	4.0
29114	Hamilton	Vickers Rd/East 18Th St	53	1.6	3.3	4.9	7.0	9.9	12.2	12.6	4.4

TABLE 24 Sulphate (SO₄²⁻) in TSP Statistics (1997)Unit =micrograms/m³

Sta	City	Location	Number of Samples	P E R C E N T I L E S						Arith Mean	Geom Mean
				10%	30%	50%	70%	90%	99%	Max	
12007	Windsor	Wright/Water St	57	10.2	13.5	15.9	18.1	21.2	24.3	26.7	15.2
12008	Windsor	467 University Av W	59	8.3	10.1	12.2	15.6	19.3	26.3	27.2	12.5
12015	Windsor	Sewage Stn Hwy 18/Prospect	56	9.3	12.1	14.0	17.1	22.2	26.7	28.5	14.0
12016	Windsor	College/South St	56	9.3	11.6	13.9	14.9	19.6	28.1	31.5	13.3
12038	Windsor	2885 Howard Av	56	8.4	10.3	13.1	16.1	21.1	29.2	30.6	13.1
12053	Amherstburg	415 Front St	54	8.2	10.7	13.0	14.7	18.6	36.7	47.5	12.7
12058	Windsor	Columbus Centre	56	8.1	9.8	12.5	14.7	17.4	24.6	25.5	11.7
14016	Courtright	Hwy40 (OPP Lambton GS)	59	6.9	9.1	11.7	14.1	18.1	21.4	22.0	11.3
22904	Nanticoke	Walpole S Ps Sandusk Rd	55	7.0	10.5	12.5	14.3	21.8	36.7	38.8	12.5
29011	Hamilton	Burlington/Leeds	57	8.7	11.0	13.3	15.7	20.9	24.2	24.3	13.4
29025	Hamilton	Barton/Wentworth	58	9.4	11.2	13.2	17.7	23.1	25.8	26.8	13.7
29102	Hamilton	467 Beach Blvd	58	9.1	12.6	14.4	18.0	21.1	36.0	48.0	14.7
29114	Hamilton	Vickers Rd/East 18Th St	53	8.5	10.3	12.1	15.9	20.8	26.5	26.6	12.6

TABLE 25 Inhalable Particles (PM₁₀) 24-Hour Statistics (1997)

Unit =micrograms/m³

24h PM₁₀ Interim AAQC is 50 ug/m³

Sta	City	Location	Number of Samples	P E R C E N T I L E S										Arith		Geom		% of days >50
				10%	30%	50%	70%	90%	99%	Max.	Mean	Mean	Mean	Mean	Mean	Mean	Mean	
12507	Windsor	Wright/Water St	54	15.0	20.9	24.5	28.1	36.4	54.8	58.0	25.9	23.9	23.9	25.9	23.9	23.9	23.9	3.7
12508	Windsor	467 University Ave W	54	13.3	16.0	23.5	27.0	39.4	60.2	65.0	24.3	22.2	22.2	24.3	22.2	22.2	22.2	3.7
12513	Windsor	3665 Wyndotte St E	54	12.0	20.0	26.5	33.2	55.0	79.0	79.0	30.5	26.1	26.1	30.5	26.1	26.1	26.1	14.8
14550	Sarnia	6th Line, Moore TWP	48	6.0	12.1	15.5	20.9	29.3	43.1	45.0	17.3	14.6	14.6	17.3	14.6	14.6	14.6	0.0
14564	Sarnia	Centennial PK/Front St	56	9.5	13.5	17.0	25.0	34.0	44.1	49.0	20.1	17.6	17.6	20.1	17.6	17.6	17.6	0.0
15525	London	900 Highbury Ave. E.	57	8.0	12.0	16.0	21.2	26.4	42.8	45.0	17.5	15.4	15.4	17.5	15.4	15.4	15.4	0.0
22304	Nanticoke	Walpole Pk Sandusk Rd	59	7.0	11.0	13.0	17.0	28.2	39.6	46.0	15.3	13.3	13.3	15.3	13.3	13.3	13.3	0.0
27308	St Catharines	71 King Street	56	9.5	14.0	18.0	23.0	29.5	45.7	49.0	19.6	17.8	17.8	19.6	17.8	17.8	17.8	0.0
27352	Thorold	185 Queen St S	59	17.6	23.4	29.0	43.8	70.2	104.4	134.0	36.8	31.6	31.6	36.8	31.6	31.6	31.6	18.6
29300	Hamilton	PM10 Elgin/Kelly St	56	10.0	13.5	21.0	23.0	41.0	57.3	60.0	22.0	19.1	19.1	22.0	19.1	19.1	19.1	5.4
29302	Hamilton	467 Beach Blvd	56	8.0	18.0	25.0	30.0	41.0	56.2	60.0	25.4	22.1	22.1	25.4	22.1	22.1	22.1	5.4
29313	Hamilton	Gertrude/Depew	50	17.0	21.7	26.5	34.0	65.1	88.6	91.0	33.1	29.0	29.0	33.1	29.0	29.0	29.0	14.0
29324	Hamilton	Buchanan Park Pk	49	9.0	13.0	16.0	22.6	31.6	51.0	52.0	19.4	17.3	17.3	19.4	17.3	17.3	17.3	2.0
31327	Toronto	Queen/University	52	14.0	19.0	24.5	32.0	46.9	60.5	62.0	27.8	25.0	25.0	27.8	25.0	25.0	25.0	5.8
35127	Eiobicoke	Evans/Arnold	54	14.0	19.0	27.0	31.0	36.0	46.5	47.0	25.7	24.0	24.0	25.7	24.0	24.0	24.0	0.0
44127	Oakville	Bronte Rd/Woburn Cr	54	10.3	14.9	18.0	24.0	33.4	46.0	46.0	20.4	18.5	18.5	20.4	18.5	18.5	18.5	0.0
46127	Mississauga	Meadwood Park	53	9.0	11.6	18.0	22.0	37.6	52.2	61.0	19.7	17.0	17.0	19.7	17.0	17.0	17.0	1.9
56051	Cornwall	Memorial Pk Bedford/Third	46	14.0	20.5	25.5	30.0	38.5	70.5	75.0	26.8	24.2	24.2	26.8	24.2	24.2	24.2	6.5
62135	Fort Frances	Legion 250 Church	54	5.3	9.9	13.0	22.0	35.4	64.3	85.0	17.8	13.6	13.6	17.8	13.6	13.6	13.6	1.9
63201	Thunder Bay	615 James St S	59	6.0	10.0	14.0	17.0	29.4	48.7	51.0	16.0	13.5	13.5	16.0	13.5	13.5	13.5	1.7
71342	Sault Ste Marie	Bonney St	60	11.0	18.0	24.5	44.3	57.5	127.4	128.0	34.4	26.4	26.4	34.4	26.4	26.4	26.4	20.0
71368	Sault Ste Marie	Wm Merrifield S	60	8.0	12.0	14.5	22.0	27.1	46.9	51.0	17.6	15.4	15.4	17.6	15.4	15.4	15.4	1.7
77326	Sudbury	19 Lisgar St	57	7.6	9.0	13.0	16.0	22.4	33.3	35.0	13.8	12.5	12.5	13.8	12.5	12.5	12.5	0.0
77570	Copper Cliff	Market St	60	6.0	9.7	13.0	17.3	24.0	34.6	37.0	14.4	12.4	12.4	14.4	12.4	12.4	12.4	0.0

Note: measurements made by modified hi-vol sampler

TABLE 26 Copper (Cu) in PM₁₀ Statistics (1997)Unit = micrograms/m³

Sta	City	Location	Number of Samples	P E R C E N T I L E S							Arith		Geom	
				10	30	50	70	90	99	Max	Mean	Mean	Mean	
12507	Windsor	Wright/Water St	54	0.005	0.005	0.005	0.005	0.005	0.025	0.030	0.007	0.006	0.006	
12508	Windsor	467 University Ave W	54	0.005	0.005	0.005	0.005	0.005	0.020	0.020	0.006	0.005	0.005	
12513	Windsor	3665 Wyndotte St E	54	0.005	0.005	0.005	0.005	0.020	0.040	0.040	0.010	0.007	0.007	
14550	Sarnia	6th Line, Moore TWP	48	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	
14564	Sarnia	Centennial PK/Front St	56	0.005	0.005	0.005	0.005	0.020	0.030	0.030	0.008	0.007	0.007	
15525	London	900 Highbury Ave. E.	57	0.005	0.005	0.005	0.005	0.020	0.029	0.040	0.008	0.007	0.007	
22304	Nanticoke	Walpole Pk Sandusk Rd	59	0.005	0.005	0.005	0.005	0.005	0.020	0.020	0.006	0.005	0.005	
27308	St Catharines	71 King Street	56	0.005	0.005	0.005	0.020	0.025	0.035	0.040	0.012	0.009	0.009	
27352	Thorold	185 Queen St S	59	0.005	0.005	0.005	0.005	0.020	0.034	0.040	0.008	0.006	0.006	
29300	Hamilton	Elgin/Kelly St	56	0.013	0.020	0.030	0.040	0.050	0.084	0.100	0.031	0.025	0.025	
29302	Hamilton	467 Beach Blvd	56	0.005	0.005	0.005	0.020	0.020	0.035	0.040	0.013	0.010	0.010	
29313	Hamilton	Gertrude/Depew	50	0.005	0.005	0.020	0.030	0.090	0.135	0.140	0.032	0.017	0.017	
29324	Hamilton	Buchanan Park Pk	49	0.005	0.005	0.005	0.005	0.030	0.035	0.040	0.009	0.007	0.007	
31327	Toronto	Queen/University	52	0.005	0.020	0.020	0.030	0.040	0.050	0.050	0.023	0.018	0.018	
35127	Etobicoke	Evans/Arnold	54	0.005	0.005	0.005	0.020	0.020	0.030	0.030	0.011	0.008	0.008	
44127	Oakville	Bronte Rd/Woburn Cr	54	0.005	0.005	0.005	0.005	0.020	0.020	0.020	0.009	0.007	0.007	
46127	Mississauga	Meadwood Park	53	0.005	0.020	0.020	0.024	0.040	0.050	0.050	0.023	0.019	0.019	
56051	Corwall	Memorial Pk Bedford/Third	46	0.005	0.020	0.020	0.030	0.035	0.056	0.070	0.022	0.018	0.018	
62135	Fort Frances	Legion 250 Church	54	0.005	0.005	0.005	0.005	0.005	0.017	0.030	0.005	0.005	0.005	
63201	Thunder Bay	615 James St S	59	0.005	0.005	0.005	0.005	0.005	0.024	0.030	0.006	0.006	0.006	
71342	Sault Ste Marie	Bonney St	60	0.005	0.005	0.005	0.005	0.005	0.024	0.030	0.006	0.006	0.006	
71368	Sault Ste Marie	Wm Merrifield S	60	0.005	0.005	0.005	0.020	0.020	0.030	0.030	0.011	0.008	0.008	
77326	Sudbury	19 Lisgar St	57	0.005	0.02	0.04	0.08	0.164	0.378	0.630	0.065	0.032	0.032	
77570	Copper Cliff	Market St	60	0.020	0.040	0.075	0.149	0.626	3.646	4.000	0.343	0.092	0.092	

Note: measurements made by modified hi-vol sampler

TABLE 27 Iron (Fe) in PM₁₀ Statistics (1997)Unit: micrograms/m³

Sta	City	Location	Number of Samples	P E R C E N T I L E S							Max	Arith.		Geom Mean
				10%	30%	50%	70%	90%	99%			Mean	Mean	
12507	Windsor	Wright/Water St	54	0.20	0.59	0.80	1.10	1.74	2.89	3.10	0.93	0.70	0.70	0.70
12508	Windsor	467 University Ave W	54	0.20	0.30	0.40	0.60	0.97	1.49	1.60	0.52	0.43	0.43	0.43
12513	Windsor	3665 Wyndotte St E	54	0.20	0.39	0.70	1.43	3.62	6.78	8.10	1.38	0.72	0.72	0.72
14550	Samia	6th Line, Moore TWP	48	0.05	0.10	0.10	0.20	0.30	0.45	0.50	0.16	0.12	0.12	0.12
14564	Samia	Centennial PK/Front St	56	0.10	0.10	0.20	0.25	0.40	0.55	0.60	0.21	0.18	0.18	0.18
15525	London	900 Highbury Ave. E.	57	0.05	0.10	0.20	0.30	0.40	0.64	0.70	0.22	0.17	0.17	0.17
22304	Nanticoke	Walpole Pk Sandusky Rd	59	0.05	0.10	0.20	0.30	0.60	0.90	0.90	0.25	0.18	0.18	0.18
27308	St Catharines	71 King Street	56	0.10	0.20	0.20	0.30	0.40	0.55	0.60	0.25	0.22	0.22	0.22
27352	Thorold	185 Queen St S	59	0.20	0.40	0.60	0.90	1.92	4.00	5.10	0.87	0.60	0.60	0.60
29300	Hamilton	Elgin/Kelly St	56	0.20	0.30	0.40	0.60	1.85	3.87	5.30	0.72	0.46	0.46	0.46
29302	Hamilton	467 Beach Blvd	56	0.10	0.45	1.15	1.90	2.20	3.60	4.20	1.23	0.75	0.75	0.75
29313	Hamilton	Gertrude/Depew	50	0.49	0.70	1.05	2.23	9.61	13.02	14.00	2.72	1.42	1.42	1.42
29324	Hamilton	Buchanan Park Pk	49	0.10	0.20	0.30	0.40	1.56	3.78	4.40	0.59	0.30	0.30	0.30
31327	Toronto	Queen/University	52	0.30	0.40	0.55	0.80	1.49	1.95	2.10	0.71	0.58	0.58	0.58
35127	Eiobicoke	Evans/Arnold	54	0.20	0.30	0.50	0.60	0.87	1.35	1.40	0.54	0.46	0.46	0.46
44127	Oakville	Bronte Rd/Woburn Cr	54	0.10	0.20	0.30	0.40	0.70	1.25	1.30	0.36	0.28	0.28	0.28
46127	Mississauga	Meadwood Park	53	0.05	0.10	0.20	0.30	0.60	0.90	0.90	0.26	0.18	0.18	0.18
56051	Corwall	Memorial Pk Bedford/Third	46	0.08	0.10	0.20	0.25	0.40	0.56	0.60	0.22	0.18	0.18	0.18
62135	Fort Frances	Legion 250 Church	54	0.07	0.19	0.30	0.40	0.70	0.95	1.00	0.32	0.23	0.23	0.23
63201	Thunder Bay	615 James St S	59	0.10	0.20	0.50	0.60	1.40	1.89	2.30	0.56	0.39	0.39	0.39
71342	Sault Ste Marie	Bonney St	60	0.30	0.77	1.65	2.63	7.18	29.84	44.00	3.39	1.41	1.41	1.41
71368	Sault Ste Marie	Wm Merrifield S	60	0.10	0.20	0.45	0.80	2.30	5.51	7.40	0.86	0.42	0.42	0.42
77326	Sudbury	19 Lisgar St	57	0.10	0.20	0.30	0.40	0.60	1.12	1.40	0.33	0.27	0.27	0.27
77570	Copper Cliff	Market St	60	0.10	0.20	0.30	0.40	1.00	3.42	4.90	0.51	0.32	0.32	0.32

Note: measurements made by modified hi-vol sampler

TABLE 28 Manganese (Mn) in PM₁₀ Statistics (1997)Unit = micrograms/m³

Site	City	Location	Number of Samples	PERCENTILES							Arith Mean		Geom Mean
				10%	30%	50%	70%	90%	99%	Max	Mean	Mean	
12507	Windsor	Wright/Water St	54	0.006	0.016	0.022	0.030	0.039	0.064	0.068	0.024	0.019	
12508	Windsor	467 University Ave W	54	0.008	0.010	0.014	0.020	0.036	0.054	0.066	0.018	0.014	
12513	Windsor	3665 Wyndotte St E	54	0.006	0.012	0.027	0.063	0.224	0.374	0.390	0.074	0.030	
14550	Sarnia	6th Line, Moore TWP	48	0.001	0.001	0.004	0.006	0.009	0.013	0.014	0.005	0.003	
14564	Sarnia	Centennial PK/Front St	56	0.001	0.004	0.008	0.008	0.012	0.023	0.024	0.007	0.006	
15525	London	900 Highbury Ave. E.	57	0.004	0.006	0.010	0.012	0.020	0.028	0.028	0.011	0.009	
22304	Naticoke	Walpole Ps Sandusk Rd	59	0.001	0.004	0.006	0.012	0.022	0.031	0.032	0.009	0.007	
27308	St Catharines	71 King Street	56	0.004	0.009	0.014	0.018	0.021	0.026	0.026	0.013	0.012	
27352	Thorold	185 Queen St S	59	0.008	0.018	0.024	0.037	0.077	0.127	0.150	0.034	0.024	
29300	Hamilton	Elgin/Kelly St	56	0.010	0.018	0.021	0.029	0.100	0.252	0.290	0.043	0.027	
29302	Hamilton	467 Beach Blvd	56	0.006	0.020	0.056	0.084	0.120	0.199	0.210	0.060	0.034	
29313	Hamilton	Gertrude/Depew	50	0.027	0.042	0.069	0.153	0.471	0.706	0.730	0.156	0.087	
29324	Hamilton	Buchanan Park Ps	49	0.006	0.009	0.012	0.024	0.078	0.185	0.190	0.031	0.016	
31327	Toronto	Queen/University	52	0.014	0.020	0.025	0.032	0.052	0.064	0.070	0.028	0.025	
35127	Etobicoke	Evans/Arnold	54	0.014	0.018	0.025	0.032	0.048	0.066	0.066	0.028	0.025	
44127	Oakville	Bronte Rd/Woburn Cr	54	0.005	0.008	0.014	0.016	0.029	0.052	0.062	0.016	0.012	
46127	Mississauga	Meadwood Park	53	0.001	0.006	0.008	0.013	0.024	0.034	0.038	0.011	0.007	
56051	Cornwall	Memorial Pk Bedford/Third	46	0.004	0.006	0.008	0.010	0.014	0.020	0.022	0.008	0.007	
62135	Fort Frances	Legion 250 Church	54	0.001	0.004	0.006	0.010	0.018	0.034	0.042	0.009	0.006	
63201	Thunder Bay	615 James St S	59	0.004	0.006	0.012	0.018	0.036	0.052	0.066	0.015	0.010	
71342	Sault Ste Marie	Bonney St	60	0.016	0.043	0.089	0.163	0.264	0.629	0.930	0.129	0.075	
71368	Sault Ste Marie	Wm Merrifield S	60	0.004	0.012	0.022	0.055	0.091	0.197	0.250	0.042	0.021	
77326	Sudbury	19 Lisgar St	57	0.004	0.006	0.006	0.010	0.017	0.028	0.028	0.009	0.007	
77570	Copper Cliff	Market St	60	0.001	0.004	0.006	0.008	0.014	0.026	0.034	0.008	0.006	

Note: measurements made by modified hi-vol sampler

TABLE 29 Sulphate (SO₄²⁻) in PM₁₀ Statistics (1997)

Unit =micrograms/m³

Sta	City	Location	Number of Samples	P E R C E N T I L E S							Arith		Geom
				10%	30%	50%	70%	90%	99%	Max	Mean	Mean	
12507	Windsor	Wright/Water St	54	2.0	3.6	4.2	5.2	7.9	17.2	18.5	5.0	4.3	
12508	Windsor	467 University Ave W	54	1.8	2.9	4.0	4.8	7.5	17.7	19.5	4.8	3.9	
12513	Windsor	3665 Wyndotte St E	54	1.6	2.9	3.8	4.6	7.7	16.6	18.3	4.5	3.7	
14550	Samia	6th Line, Moore TWP	48	1.7	2.4	3.8	5.6	9.4	13.0	13.2	4.8	3.7	
14564	Samia	Centennial PK/Front St	56	1.5	2.8	3.8	6.6	9.4	14.4	14.6	5.1	4.0	
15525	London	900 Highbury Ave. E.	57	1.2	2.0	2.8	3.8	5.9	15.1	16.8	3.6	2.8	
22304	Nanticoke	Walpole Ps Sandusk Rd	59	1.5	2.6	3.6	5.0	8.7	17.2	19.9	4.6	3.6	
27308	St Catharines	71 King Street	56	1.5	2.5	3.1	4.3	8.6	15.1	18.3	4.2	3.4	
27352	Thorold	185 Queen St S	59	1.8	2.5	3.2	4.5	8.3	14.8	18.6	4.3	3.5	
29300	Hamilton	Elgin/Kelly St	56	1.4	2.6	3.4	4.8	8.1	15.1	17.8	4.4	3.5	
29302	Hamilton	467 Beach Blvd	56	1.5	3.1	3.9	5.0	7.7	14.0	16.7	4.5	3.8	
29313	Hamilton	Gertrude/Depew	50	1.9	3.2	4.2	4.7	7.7	13.1	15.8	4.5	3.9	
29324	Hamilton	Buchanan Park Ps	49	1.4	2.6	3.6	4.8	6.9	10.1	10.6	4.0	3.5	
31327	Toronto	Queen/University	52	1.5	2.5	3.5	4.5	8.1	13.0	14.8	4.2	3.5	
35127	Etobicoke	Evans/Arnold	54	1.5	2.8	3.8	5.0	8.8	10.4	10.8	4.4	3.7	
44127	Oakville	Bronte Rd/Woburn Cr	54	1.5	2.6	3.3	4.8	7.7	11.2	11.2	4.1	3.4	
46127	Mississauga	Meadwood Park	53	1.5	2.6	3.3	5.2	8.0	17.3	20.2	4.6	3.7	
56051	Corwall	Memorial Pk Bedford/Third	46	2.0	3.3	5.3	7.7	11.9	22.2	23.7	6.6	5.1	
62135	Fort Frances	Legion 250 Church	54	0.7	1.2	1.5	2.7	5.3	10.8	13.4	2.4	1.7	
63201	Thunder Bay	615 James St S	59	0.7	1.0	1.3	1.6	3.3	4.8	4.8	1.6	1.3	
71342	Sault Ste Marie	Bonney St	60	0.8	1.8	2.6	4.4	6.9	11.6	15.7	3.5	2.7	
71368	Sault Ste Marie	Wm Merrifield S	60	0.8	1.2	1.8	2.8	4.5	7.6	7.8	2.4	1.9	
77326	Sudbury	19 Lisgar St	57	0.7	1.2	2.0	3.0	5.0	7.3	7.5	2.4	1.9	
77570	Copper Cliff	Market St	60	0.7	1.2	2.1	2.8	5.1	6.8	6.9	2.5	1.9	

Note: measurements made by modified hi-vol sampler

TABLE 30 10-YEAR TREND FOR SO₂

Annual Mean (ppb)

City	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
BURLINGTON	4.0	7.0	6.0	3.0	6.0	6.0	4.0	2.0	4.0	5.1
CORNWALL	6.0	7.0	5.0	5.0	5.0	7.0	12.0	5.0	5.0	3.9
ETOBICOKE	6.0	5.0	6.0	6.0	8.0	5.0	4.0	3.0	4.0	4.9
HAMILTON	8.0	10.0	7.0	7.0	7.0	6.0	5.0	8.0	9.0	5.8
KITCHENER *	3.0	3.0	n/a	3.0	3.0	3.0	3.0	2.0	3.0	3.1
LONDON #	4.0	6.0	4.0	5.0	4.0	3.0	4.0	2.0	3.0	2.5
LONG POINT	2.0	3.0	4.0	4.0	5.0	2.0	3.0	2.0	3.0	2.7
MISSISSAUGA	4.0	4.0	4.0	5.0	6.0	3.0	3.0	2.0	n/a	n/a
NIAGARA FALLS	2.0	5.0	5.0	5.0	5.0	4.0	4.0	3.0	5.0	n/a
NORTH YORK ^	2.0	2.0	2.0	2.0	3.0	4.0	3.0	2.0	5.0	4.4
OAKVILLE	5.0	6.0	5.0	5.0	4.0	5.0	4.0	2.0	5.0	4.8
OSHAWA	6.0	6.0	4.0	4.0	4.0	3.0	2.0	2.0	5.0	4.6
OTTAWA	2.0	3.0	2.0	3.0	2.0	2.0	1.0	1.0	5.0	6.3
SARNIA	9.0	8.0	12.0	9.0	9.0	10.0	9.0	6.0	7.0	8.5
SCARBOROUGH	8.0	6.0	6.0	4.0	3.0	3.0	3.0	4.0	6.0	5.2
SIMCOE	5.0	5.0	4.0	3.0	3.0	3.0	2.0	2.0	3.0	3.2
ST CATHARINES	11.0	6.0	4.0	5.0	5.0	3.0	3.0	5.0	6.0	5.8
STOUFFVILLE	3.0	4.0	3.0	4.0	3.0	3.0	4.0	3.0	3.0	3.3
SUDBURY	10.0	8.0	8.0	5.0	4.0	4.0	3.0	4.0	5.0	3.5
THUNDER BAY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
TIVERTON	3.0	2.0	1.0	1.0	1.0	1.0	2.0	1.0	2.0	2.0
TORONTO	7.0	8.0	6.0	5.0	8.0	7.0	3.0	3.0	5.0	5.3
WINDSOR	11.0	8.0	7.0	7.0	6.0	6.0	6.0	5.0	10.0	6.7
COMPOSITE MEAN	5.3	5.3	4.8	4.3	4.5	4.0	3.8	3.0	4.5	4.2

* Site changed location from Edna/Frederick St (26029) to West Ave/Homewood (26060) in 1990.

Site change from King/Rectory (15001) to 900 Highbury Ave (15025) in 1995

^ Site changed location from Science Centre (34002) to North York Central (34020) in 1992.

n/a - data not available

TABLE 31 10-YEAR TREND FOR SP

Annual Mean (COH units/1000ft)

City	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
CORNWALL	0.10	0.11	0.19	0.17	0.19	0.22	0.19	0.22	0.26	0.15
ETOBICOKE	0.43	0.59	0.52	0.50	0.46	0.51	0.38	0.33	0.29	0.26
HAMILTON	0.46	0.50	0.42	0.41	0.45	0.48	0.47	0.39	0.43	0.33
LONDON *	0.25	0.33	0.28	0.25	0.24	0.25	0.25	0.20	0.21	0.17
NIAGARA FALLS	0.20	0.32	0.25	0.24	0.20	0.21	0.27	0.24	0.23	n/a
NORTH YORK #	0.34	0.41	0.30	0.33	0.31	0.35	0.40	0.38	0.37	0.28
OSHAWA	0.31	0.37	0.37	0.35	0.31	0.36	0.37	0.23	0.26	0.24
OTTAWA	0.23	0.36	0.35	0.25	0.28	0.24	0.22	0.18	0.18	0.16
SARNIA	0.24	0.30	0.28	0.24	0.22	0.20	0.20	0.18	0.17	0.18
SCARBOROUGH	0.37	0.42	0.36	0.34	0.30	0.30	0.34	0.32	0.28	0.28
SUDBURY	0.21	0.18	0.12	0.17	0.17	0.21	0.19	0.14	0.15	0.12
ST CATHARINES	0.23	0.25	0.25	0.25	0.26	0.27	0.25	0.24	0.24	0.2
TORONTO	0.34	0.37	0.38	0.40	0.39	0.42	0.38	0.38	0.44	0.35
WINDSOR	0.44	0.40	0.40	0.30	0.34	0.36	0.28	0.31	0.26	0.15
COMPOSITE MEAN	0.30	0.35	0.32	0.30	0.29	0.31	0.30	0.27	0.27	0.22

* Site changed from King/Rectory (15001) to 900 Highbury Ave (15025)

Site changed location from Science Centre (34002) to North York Central (34020) in 1992.

n/a - data not available

TABLE 32 10-YEAR TREND FOR TRS

Annual Mean (ppb)

City	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
CORNWALL	2.5	3.4	3.4	2.9	2.3	1.8	2.5	1.3	1.2	2.0
FORT FRANCES	5.9	4.9	5.5	4.3	4.2	4.2	2.4	2.5	2.7	2.6
HAMILTON	0.8	0.8	0.9	0.8	0.6	0.7	1.1	1.2	1.4	1.0
MARATHON	2.2	1.5	1.1	0.9	0.5	0.7	0.9	0.5	0.4	0.2
OAKVILLE	1.4	1.1	1.3	1.6	0.5	1.0	1.3	0.3	1.3	1.3
RED ROCK	2.9	1.4	1.7	1.4	2.0	1.9	3.2	1.1	1.2	1.6
TERRACE BAY	2.1	1.4	1.3	1.3	1.7	1.7	1.1	1.7	1.3	1.0
TIVERTON	0.9	0.4	0.0	0.0	0.1	0.1	0.1	0.2	0.3	0.1
THUNDER BAY	1.0	1.0	0.2	0.2	0.3	0.2	0.3	0.3	0.8	1.1
COMPOSITE MEAN	2.1	1.7	1.7	1.5	1.1	1.3	1.4	1.0	1.1	1.2

TABLE 33 10-YEAR TREND FOR CO

Annual Mean (ppm)

CITY	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
CORNWALL	0.6	0.8	0.6	0.8	0.5	0.8	0.5	0.6	0.6	1.1
ETOBICOKE	1.2	0.7	0.8	0.8	0.6	0.7	0.7	0.8	0.7	1.0
HAMILTON	1.2	1.2	1.2	1.1	1.2	1.1	0.8	0.6	1.0	0.7
KITCHENER *	0.9	1.1	n/a	0.6	0.5	0.4	0.3	0.3	0.4	0.2
LONDON #	0.5	0.9	0.6	0.7	0.7	0.6	0.5	0.1	0.0	0.3
NORTH YORK ^	0.8	0.8	1.0	0.7	1.0	1.1	0.9	0.5	0.9	0.7
OAKVILLE	0.9	0.9	0.5	0.5	0.3	0.7	0.7	0.5	0.7	0.3
OSHAWA	1.1	0.9	0.9	0.8	0.9	0.9	1.0	0.8	0.6	0.4
OTTAWA	0.5	0.7	0.7	1.0	1.1	0.9	0.8	0.6	0.7	0.4
SARNIA	0.3	0.3	0.3	0.2	0.3	0.2	0.2	0.1	0.2	0.2
SCARBOROUGH	1.1	1.0	1.2	1.2	1.0	0.8	1.0	1.0	1.1	0.6
ST CATHARINES	n/a	1.0	0.9	1.0	0.7	0.5	0.4	0.2	0.3	0.1
SUDBURY	0.3	0.4	0.5	0.3	0.1	0.1	0.1	0.0	0.1	0.0
TORONTO	0.6	0.9	1.1	1.1	1.0	1.1	1.0	0.7	1.3	1.2
WINDSOR	0.9	1.0	1.2	1.0	0.9	0.8	1.0	0.9	0.8	0.6
COMPOSITE MEAN	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.6	0.5

* Site changed location from Edna/Frederick St (26029) to West Ave/Homewood (26060) in 1990.

Site changed location from King/Rectorry to 900 Highbury Ave in 1995

^ Site changed location from Science Centre (34002) to North York Central (34020) in 1992.

n/a - data not available

TABLE 34 10-YEAR TREND FOR NO₂

Annual Mean (ppb)

City	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
CORNWALL	8.0	9.0	8.0	6.0	10.0	8.0	9.0	8.0	12.0	8.0
ETOBICOKE	21.0	30.0	26.0	25.0	26.0	26.0	27.0	25.0	25.0	26.7
HAMILTON	24.0	26.0	22.0	22.0	19.0	22.0	22.0	19.0	22.0	18.6
KITCHENER *	27.0	25.0	n/a	13.0	15.0	14.0	14.0	11.0	13.0	13.7
LONDON #	20.0	22.0	21.0	19.0	18.0	20.0	23.0	20.0	18.0	18.0
NORTH YORK ^	27.0	28.0	28.0	29.0	24.0	21.0	20.0	18.0	22.0	20.2
OAKVILLE	16.0	16.0	17.0	17.0	16.0	19.0	17.0	17.0	20.0	20.8
OSHAWA	24.0	24.0	19.0	18.0	18.0	19.0	18.0	20.0	19.0	18.6
OTTAWA	16.0	17.0	16.0	20.0	17.0	19.0	19.0	16.0	13.0	12.5
SARNIA	15.0	19.0	21.0	19.0	20.0	16.0	18.0	17.0	16.0	16.9
SCARBOROUGH	25.0	27.0	25.0	24.0	19.0	19.0	22.0	25.0	23.0	23.4
ST CATHARINES	18.0	21.0	16.0	16.0	12.0	17.0	17.0	14.0	16.0	13.8
SUDBURY	10.0	11.0	9.0	9.0	9.0	10.0	11.0	12.0	8.0	7.4
TORONTO	25.0	27.0	25.0	29.0	27.0	29.0	30.0	30.0	34.0	31.7
WINDSOR	30.0	27.0	25.0	25.0	25.0	26.0	28.0	25.0	26.0	23.8
COMPOSITE MEAN	20.4	21.9	19.9	19.4	18.3	19.0	19.7	18.5	19.1	18.3

* Site changed location from Edna/Frederick St (26029) to West Ave/Homewood (26060) in 1990.

Site changed location from King/Rectory to 900 Highbury Ave in 1995

^ Site changed location from Science Centre (34002) to North York Central (34020) in 1992.

n/a - data not available

TABLE 35 10-YEAR TREND FOR NO

Annual Mean (ppb)

CITY	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
CORNWALL	10.0	9.0	8.0	6.0	8.0	7.0	6.0	6.0	8.0	6.3
ETOBICOKE	26.0	29.0	23.0	19.0	25.0	22.0	23.0	19.0	22.0	18.6
HAMILTON	17.0	14.0	12.0	11.0	15.0	17.0	18.0	16.0	15.0	10.8
KITCHENER *	47.0	45.0	n/a	5.0	6.0	6.0	8.0	7.0	7.0	5.5
LONDON #	15.0	15.0	16.0	11.0	13.0	13.0	18.0	15.0	10.0	7.6
NORTH YORK ^	21.0	26.0	38.0	20.0	21.0	16.0	17.0	18.0	17.0	16.3
OAKVILLE	36.0	30.0	15.0	11.0	13.0	16.0	15.0	15.0	16.0	14.9
OSHAWA	14.0	18.0	20.0	14.0	14.0	17.0	19.0	18.0	15.0	16.4
OTTAWA	11.0	12.0	9.0	9.0	11.0	12.0	11.0	7.0	8.0	7.0
SARNIA	6.0	7.0	7.0	6.0	7.0	7.0	9.0	6.0	7.0	7.0
SCARBOROUGH	33.0	33.0	27.0	26.0	25.0	24.0	26.0	24.0	23.0	24.9
ST CATHARINES	10.0	11.0	11.0	8.0	14.0	12.0	10.0	10.0	13.0	10.3
SUDBURY	5.0	6.0	5.0	5.0	4.0	4.0	5.0	6.0	6.0	4.9
TORONTO	18.0	22.0	21.0	n/a	25.0	27.0	25.0	23.0	42.0	32.9
WINDSOR	14.0	15.0	16.0	19.0	18.0	17.0	17.0	15.0	16.0	15.9
COMPOSITE MEAN	18.9	19.5	16.3	12.1	14.6	14.5	15.1	13.7	15.0	13.3

* Site changed location from Edna/Frederick St (26029) to West Ave/Homewood (26060) in 1990.

Site change location from King/Rectorry (15001) to 900 Highbury Ave (15025) in 1995

^ Site changed location from Science Centre (34002) to North York Central (34020) in 1992.

n/a - data not available

TABLE 36 10-YEAR TREND FOR NO_x

Annual Mean (ppb)

City	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
CORNWALL	17.0	19.0	18.0	16.0	19.0	17.0	17.0	16.0	17.0	14.5
ETOBICOKE	46.0	61.0	50.0	44.0	51.0	49.0	49.0	45.0	47.0	45.2
HAMILTON	41.0	40.0	35.0	33.0	33.0	39.0	40.0	35.0	37.0	29.5
KITCHENER*	73.0	70.0	39.0	21.0	22.0	21.0	23.0	20.0	20.0	19.2
LONDON #	35.0	37.0	34.0	31.0	34.0	35.0	38.0	32.0	28.0	24.4
NORTH YORK ^	49.0	54.0	66.0	49.0	45.0	37.0	38.0	36.0	39.0	36.7
OAKVILLE	36.0	42.0	31.0	28.0	30.0	35.0	34.0	32.0	33.0	32.8
OSHAWA	36.0	42.0	40.0	32.0	33.0	36.0	37.0	36.0	35.0	34.9
OTTAWA	26.0	29.0	25.0	29.0	28.0	29.0	28.0	22.0	25.0	19.6
SARNIA	21.0	28.0	29.0	26.0	26.0	23.0	28.0	23.0	23.0	24.9
SCARBOROUGH	58.0	60.0	51.0	50.0	46.0	46.0	50.0	49.0	45.0	47.5
ST CATHARINES	29.0	33.0	27.0	24.0	27.0	30.0	28.0	25.0	29.0	24.5
SUDBURY	15.0	16.0	14.0	14.0	14.0	16.0	17.0	17.0	14.0	12.5
TORONTO	44.0	48.0	46.0	54.0	52.0	55.0	54.0	55.0	76.0	64.3
WINDSOR	44.0	42.0	41.0	42.0	42.0	42.0	42.0	38.0	39.0	39.3
COMPOSITE MEAN	38.0	41.4	36.4	32.9	33.5	34.0	34.9	32.1	33.8	31.3

* Site changed location from Edna/Frederick St (26029) to West Ave/Homewood (26060) in 1990.

Site change from King/Rectorry (15001) to 900 Highbury Ave (15025) in 1995

^ Site changed location from Science Centre (34002) to North York Central (34020) in 1992.

n/a - data not available

TABLE 37 10-YEAR TREND FOR O₃

Annual Mean (ppb)

CITY	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
CORNWALL	24.0	20.4	21.2	20.7	20.8	21.6	21.7	23.5	21.0	22.8
ETOBICOKE	19.3	16.9	16.4	19.0	15.4	16.0	17.4	16.3	17.1	19.4
GRAND BEND	29.7	28.0	27.4	n/a	29.7	31.3	30.2	31.3	31.9	31.2
HAMILTON	17.9	16.7	17.6	19.9	16.9	16.9	17.0	18.0	17.3	18.1
KITCHENER *	21.6	19.9	n/a	27.2	22.7	23.2	24.4	25.1	23.8	23.4
LONDON #	23.7	22.9	22.1	22.7	20.3	22.8	23.1	21.7	23.1	22.8
LONG POINT	38.4	35.7	33.0	33.9	32.3	31.2	32.2	31.0	34.4	35.2
MANDAUMIN	30.0	28.4	23.7	28.1	23.5	24.5	24.6	24.0	23.4	27.9
MERLIN	31.5	27.2	26.0	28.4	24.3	23.7	24.2	28.0	28.6	27.0
MISSISSAUGA	17.7	18.6	17.8	18.6	15.6	16.1	19.5	19.2	19.4	20.0
OAKVILLE	20.9	22.1	22.2	22.1	19.3	21.0	22.5	20.4	21.1	20.8
OSHAWA	20.2	21.9	18.8	22.6	20.3	21.4	23.8	22.7	21.9	23.2
OTTAWA	20.7	20.9	21.5	20.8	17.4	18.1	19.7	20.9	18.9	20.6
SARNIA	22.6	25.3	21.4	23.4	21.3	22.6	21.4	22.2	25.2	24.5
SCARBOROUGH	17.7	17.9	17.6	19.1	14.3	17.0	18.2	19.3	18.9	18.0
SIMCOE	31.2	28.6	26.3	29.1	25.1	27.8	30.2	30.7	29.9	28.6
ST CATHARINES	23.6	20.8	23.8	25.0	19.3	23.9	23.6	20.5	20.3	20.9
STOUFFVILLE	26.6	28.1	24.9	25.0	23.0	23.0	25.3	24.4	26.4	30.1
SUDBURY	29.5	28.9	27.2	27.0	25.4	25.9	27.1	29.7	28.1	28.0
TIVERTON	34.6	33.1	31.3	34.2	33.4	32.2	31.7	31.6	32.0	32.5
TORONTO	17.5	16.9	15.7	18.0	12.5	14.6	16.9	16.6	12.2	13.7
WINDSOR	23.5	20.6	17.1	17.6	15.1	17.1	18.0	18.3	20.4	20.7
COMPOSITE MEAN	24.4	23.4	21.8	24.3	21.2	23.1	23.9	23.4	23.4	24.1

* Site changed location from Edna/Frederick St (26029) to West Ave/Homewood (26060) in 1990.

Site change from King/Rectorry (15001) to 900 Highbury Ave (15025) in 1995

n/a - data not available

Table A38 Stations Used in Gaseous Trends

City	Station# (Sampling Period)
Burlington	44008 (1988 - 1997)
Cornwall	56051 (1988 - 1997)
Etobicoke	35003 (1988 - 1997)
Fort Frances	62030 (1988 - 1997)
Hamilton	29000 (1988 - 1997)
Grand Bend	10001 (1988 - 1990);15020 (1991-1997)
Kitchener	26029 (1988 - 1990);26060 (1991-1997)
London	15001 (1988 - 1995);15025 (1996 - 1997)
Long Point	22901 (1988 - 1997)
Mandaumin	14118 (1988 - 1997)
Merlin	13021 (1988 - 1997)
Mississauga	46110 (1988 - 1997)
Niagara Falls	27056 (1988 - 1992);27072 (1993-1997)
North Bay	75010 (1988 - 1997)
North York	34002 (1988 - 1991);34020 (1992-1997)
Oakville	44015 (1988 - 1997)
Oshawa	45025 (1988 - 1997)
Ottawa	51001 (1988 - 1997)
Peterborough	59006 (1988 - 1997)
Sarnia	14064 (1988 - 1997)
Scarborough	33003 (1988 - 1997)
Simcoe	22071 (1988 - 1997)
St Catharines	27067 (1988 - 1997)
Stouffville	48002 (1988 - 1997)
Sudbury	77203 (1988 - 1997)
Thunder Bay	63200 (1988 - 1997)
Tiverton	18007 (1988 - 1997)
Toronto	31104 (1988 - 1990);31103 (1991-1997)
Windsor	12008 (1988 - 1997)

TABLE 39 VOC Annual Statistics at Egbert (1997)

Unit = micrograms/m³

Compounds	Compound Class	No. of Samples	%>DL	PERCENTILES					Min	Median	Mean	Std. Dev.
				5%	25%	75%	90%	95%				
1,1,1-Trichloroethane	Alkane	155	100.00	0.89	1.24	2.93	4.13	9.24	0.76	1.83	2.35	1.31
1,1,2-Trichloroethane	Alkane	155	100.00	12.323	1.39	1.48	1.65	1.73	1.20	1.57	1.57	0.12
1,2-Dichloroethane	Alkane	155	100.00	7.457	0.77	0.85	1.04	1.18	1.34	0.69	0.97	0.14
1,2,3-Trichloropropane	Alkane	155	99.35	6.251	0.11	0.34	1.69	2.68	43.85	0.90	0.73	1.66
1,2,4-Trichlorobenzene	Alkane	155	100.00	4.463	0.54	0.57	0.61	0.63	0.69	0.52	0.59	0.03
1,2,4,5-Tetrachlorobenzene	Alkane	155	100.00	4.272	0.49	0.52	0.57	0.61	0.76	0.46	0.55	0.05
1,2,4,5-Tetrachlorobenzene	Alkane	155	100.00	4.077	0.17	0.30	1.06	1.53	3.74	0.12	0.50	0.75
1,2,4,5-Tetrachlorobenzene	Alkane	155	100.00	4.069	0.15	0.24	0.92	1.84	18.88	0.09	0.40	0.94
1,2,4,5-Tetrachlorobenzene	Alkane	155	100.00	3.724	0.09	0.19	1.04	2.01	5.84	0.05	0.40	0.82
1,2,4,5-Tetrachlorobenzene	Alkane	155	100.00	3.672	0.00	0.04	0.57	1.22	3.97	0.00	0.17	0.42
1,2,4,5-Tetrachlorobenzene	Alkane	155	100.00	3.442	0.10	0.20	0.95	1.75	5.88	0.08	0.38	0.73
1,2,4,5-Tetrachlorobenzene	Alkane	155	100.00	3.209	0.23	0.30	0.60	1.07	3.76	0.18	0.37	0.55
1,2,4,5-Tetrachlorobenzene	Alkane	155	100.00	3.165	0.32	0.37	0.45	0.52	1.03	0.26	0.41	0.42
1,2,4,5-Tetrachlorobenzene	Alkane	155	100.00	3.145	0.11	0.18	0.64	0.95	2.58	0.08	0.32	0.46
1,2,4,5-Tetrachlorobenzene	Alkane	155	100.00	2.488	0.11	0.18	0.64	0.95	2.58	0.08	0.32	0.46
1,2,4,5-Tetrachlorobenzene	Alkane	155	99.35	2.236	0.09	0.16	0.56	0.98	3.26	0.00	0.26	0.45
1,2,4,5-Tetrachlorobenzene	Alkane	155	100.00	1.827	0.14	0.17	0.29	0.54	4.10	0.12	0.21	0.32
1,2,4,5-Tetrachlorobenzene	Alkane	155	99.35	1.804	0.04	0.09	0.55	1.01	2.68	0.00	0.19	0.39
1,2,4,5-Tetrachlorobenzene	Alkane	155	100.00	1.660	0.05	0.07	0.33	1.11	8.94	0.03	0.11	0.43
1,2,4,5-Tetrachlorobenzene	Alkane	155	100.00	1.600	0.00	0.06	0.22	0.42	1.48	0.00	0.10	0.18
1,2,4,5-Tetrachlorobenzene	Alkane	155	92.90	0.862	0.03	0.04	0.20	0.46	3.19	0.02	0.08	0.20
1,2,4,5-Tetrachlorobenzene	Alkane	155	100.00	0.785	0.03	0.05	0.19	0.38	1.28	0.00	0.08	0.16
1,2,4,5-Tetrachlorobenzene	Alkane	155	99.35	0.782	0.07	0.08	0.13	0.19	0.51	0.00	0.10	0.12
1,2,4,5-Tetrachlorobenzene	Alkane	155	99.35	0.750	0.04	0.06	0.15	0.30	1.04	0.00	0.09	0.14
1,2,4,5-Tetrachlorobenzene	Alkane	155	97.42	0.709	0.08	0.08	0.10	0.11	0.19	0.07	0.09	0.09
1,2,4,5-Tetrachlorobenzene	Alkane	155	96.13	0.685	0.02	0.04	0.17	0.40	1.63	0.00	0.08	0.15
1,2,4,5-Tetrachlorobenzene	Alkane	155	94.81	0.602	0.02	0.05	0.13	0.26	2.78	0.00	0.07	0.13
1,2,4,5-Tetrachlorobenzene	Alkane	155	100.00	0.590	0.02	0.03	0.12	0.30	2.46	0.01	0.05	0.14
1,2,4,5-Tetrachlorobenzene	Alkane	155	98.06	0.565	0.02	0.04	0.15	0.26	1.32	0.00	0.06	0.11
1,2,4,5-Tetrachlorobenzene	Alkane	155	99.35	0.416	0.02	0.03	0.08	0.15	1.35	0.00	0.04	0.08
1,2,4,5-Tetrachlorobenzene	Alkane	155	100.00	0.378	0.02	0.02	0.07	0.21	1.10	0.01	0.03	0.08
1,2,4,5-Tetrachlorobenzene	Alkane	155	100.00	0.360	0.02	0.03	0.06	0.13	0.49	0.01	0.04	0.06
1,2,4,5-Tetrachlorobenzene	Alkane	155	95.48	0.341	0.02	0.03	0.07	0.11	0.55	0.00	0.04	0.06
1,2,4,5-Tetrachlorobenzene	Alkane	155	87.74	0.333	0.00	0.03	0.07	0.14	0.82	0.00	0.04	0.07
1,2,4,5-Tetrachlorobenzene	Alkane	155	65.81	0.329	0.00	0.00	0.10	0.22	1.06	0.00	0.04	0.08
1,2,4,5-Tetrachlorobenzene	Alkane	155	81.29	0.324	0.00	0.03	0.07	0.13	0.91	0.00	0.04	0.07
1,2,4,5-Tetrachlorobenzene	Alkane	155	67.10	0.315	0.00	0.00	0.10	0.21	0.91	0.00	0.04	0.07
1,2,4,5-Tetrachlorobenzene	Alkane	155	78.06	0.270	0.00	0.02	0.07	0.14	0.49	0.00	0.03	0.06
1,2,4,5-Tetrachlorobenzene	Alkane	155	80.00	0.270	0.00	0.03	0.05	0.08	0.28	0.00	0.04	0.04
1,2,4,5-Tetrachlorobenzene	Alkane	155	98.71	0.266	0.01	0.02	0.06	0.14	0.89	0.00	0.02	0.06
1,2,4,5-Tetrachlorobenzene	Alkane	155	70.32	0.261	0.00	0.00	0.07	0.11	0.71	0.00	0.04	0.08
1,2,4,5-Tetrachlorobenzene	Alkane	155	91.61	0.248	0.00	0.02	0.06	0.08	0.27	0.00	0.03	0.05
1,2,4,5-Tetrachlorobenzene	Alkane	155	63.87	0.214	0.00	0.00	0.06	0.15	0.51	0.00	0.03	0.05
1,2,4,5-Tetrachlorobenzene	Alkane	155	83.23	0.213	0.00	0.02	0.03	0.08	0.94	0.00	0.02	0.04
1,2,4,5-Tetrachlorobenzene	Alkane	155	97.42	0.187	0.01	0.01	0.04	0.08	0.43	0.00	0.02	0.04
1,2,4,5-Tetrachlorobenzene	Alkane	155	94.77	0.173	0.01	0.01	0.04	0.07	0.36	0.00	0.02	0.03
1,2,4,5-Tetrachlorobenzene	Alkane	155	61.29	0.168	0.00	0.00	0.05	0.10	0.30	0.00	0.03	0.04
1,2,4,5-Tetrachlorobenzene	Alkane	155	58.06	0.168	0.00	0.00	0.06	0.11	0.44	0.00	0.03	0.04
1,2,4,5-Tetrachlorobenzene	Alkane	155	99.35	0.162	0.01	0.02	0.03	0.05	0.15	0.00	0.02	0.03

TABLE 39 VOC Annual Statistics at Egbert (1997)

Unit -micrograms/m³

Compound	Compound Class	No. of Samples	NDL	% Samples	PERCENTILES										Min	Max	Mean	Std. Dev.
					5%	25%	75%	95%	99%	99.5%	99.9%	99.95%	99.99%	99.995%				
2-Ethylhexane	Aromatic	155	94.84	0.156	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.02	0.03	0.04
Methylcyclohexane	Alkane	155	61.29	0.156	0.00	0.00	0.00	0.05	0.11	0.18	0.00	0.00	0.00	0.00	0.00	0.02	0.04	0.11
2,3,4-Trimethylpentane	Alkane	155	49.68	0.155	0.00	0.00	0.04	0.12	0.55	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.27
Cyclohexane	Alkane	155	47.74	0.151	0.00	0.00	0.04	0.10	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.05
2-Methylpentane	Alkane	155	45.81	0.139	0.00	0.00	0.05	0.10	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.08
1,4-Dimethylbenzene	Aromatic	155	73.55	0.137	0.00	0.00	0.03	0.06	0.23	0.00	0.00	0.02	0.03	0.03	0.00	0.02	0.03	0.03
1-Hexane	Alkane	155	42.58	0.123	0.00	0.00	0.05	0.06	0.11	0.00	0.00	0.00	0.02	0.03	0.00	0.00	0.02	0.03
1,2,3-Trimethylbenzene	Aromatic	155	82.58	0.123	0.00	0.01	0.02	0.06	0.29	0.00	0.00	0.00	0.01	0.02	0.00	0.01	0.02	0.04
1,3,5-Trimethylbenzene	Aromatic	155	77.42	0.111	0.00	0.01	0.02	0.06	0.31	0.00	0.00	0.00	0.01	0.02	0.00	0.01	0.02	0.04
3-Methylpentane	Alkane	155	41.94	0.109	0.00	0.00	0.05	0.09	0.67	0.00	0.00	0.00	0.00	0.03	0.00	0.03	0.07	0.07
1-Pentane	Alkane	155	39.35	0.103	0.00	0.00	0.04	0.07	0.14	0.00	0.00	0.00	0.00	0.02	0.00	0.02	0.03	0.03
2,4-Dimethylpentane	Alkane	155	46.45	0.094	0.00	0.00	0.04	0.07	0.22	0.00	0.00	0.00	0.00	0.02	0.00	0.02	0.04	0.04
iso-Propylbenzene	Aromatic	155	78.06	0.080	0.00	0.01	0.02	0.03	0.11	0.00	0.00	0.00	0.01	0.01	0.00	0.01	0.01	0.01
Indane	Aromatic	155	72.26	0.077	0.00	0.00	0.02	0.03	0.14	0.00	0.00	0.00	0.01	0.01	0.00	0.01	0.01	0.02
p-Cymene	Aromatic	155	33.55	0.072	0.00	0.00	0.02	0.04	0.11	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.02
2,4-Dimethylbenzene	Alkane	155	37.42	0.069	0.00	0.00	0.03	0.06	0.43	0.00	0.00	0.00	0.00	0.02	0.00	0.02	0.04	0.04
2,5-Dimethylbenzene	Alkane	155	40.65	0.062	0.00	0.00	0.03	0.05	0.36	0.00	0.00	0.00	0.00	0.02	0.00	0.02	0.04	0.04
2-Methyl-1-hexene	Alkane	155	38.71	0.057	0.00	0.00	0.03	0.04	0.17	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.02	0.02
n-Butylbenzene	Aromatic	155	57.42	0.054	0.00	0.00	0.02	0.02	0.07	0.00	0.00	0.00	0.01	0.01	0.00	0.01	0.01	0.01
cis-1,3-Dimethylcyclohexane	Alkane	155	37.42	0.049	0.00	0.00	0.02	0.05	0.44	0.00	0.00	0.00	0.00	0.02	0.00	0.02	0.04	0.04
1,3-Hexadiene	Alkane	155	29.03	0.047	0.00	0.00	0.02	0.04	0.14	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.03	0.03
2-Methyl-2-hexene	Alkane	155	30.97	0.045	0.00	0.00	0.02	0.03	0.17	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.02	0.02
cis-1,2-Dimethylcyclohexane	Alkane	155	41.94	0.039	0.00	0.00	0.02	0.02	0.08	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.01	0.01
2,2,5-Trimethylbenzene	Alkane	155	36.77	0.037	0.00	0.00	0.02	0.03	0.16	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.02	0.02
4-Methylpentane	Alkane	155	27.10	0.034	0.00	0.00	0.01	0.04	0.26	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.03	0.03
cis-2-Pentene	Alkane	155	28.39	0.032	0.00	0.00	0.01	0.03	0.08	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.01	0.01
trans-1,4-Dimethylcyclohexane	Alkane	155	26.45	0.031	0.00	0.00	0.01	0.03	0.29	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.03	0.03
1,3-Dimethylbenzene	Aromatic	155	39.35	0.029	0.00	0.00	0.01	0.02	0.08	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.01	0.01
trans-2-Pentene	Alkane	155	22.58	0.022	0.00	0.00	0.00	0.02	0.13	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.02	0.02
Cyclopentene	Alkane	155	30.32	0.022	0.00	0.00	0.01	0.01	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
2,2-Dimethylpentane	Alkane	155	23.87	0.021	0.00	0.00	0.00	0.02	0.06	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.01	0.01
cis-2-Butene	Alkane	155	17.42	0.019	0.00	0.00	0.00	0.02	0.09	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.02	0.02
trans-1,4-Dimethylcyclohexane	Alkane	155	23.23	0.018	0.00	0.00	0.00	0.02	0.18	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.02	0.02
cis-1,4+1,3-Dimethylcyclohexane	Alkane	155	29.68	0.018	0.00	0.00	0.01	0.02	0.13	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.01	0.01
trans-2-Butene	Alkane	155	16.77	0.016	0.00	0.00	0.00	0.02	0.09	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.01	0.01
4-Methyl-1-pentene	Alkane	155	2.58	0.002	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,2-Dimethylbenzene	Alkane	155	4.52	0.002	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
trans-2-Hexene	Alkane	155	1.94	0.001	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cis-2-Hexene	Alkane	155	1.29	0.001	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cis-3-Methyl-2-pentene	Alkane	155	1.54	0.001	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3-Methyl-1-pentene	Alkane	155	1.94	0.001	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
trans-3-Methyl-2-pentene	Alkane	155	0.65	0.001	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
cis-4-Methyl-2-pentene	Alkane	155	1.29	0.001	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

TABLE 40 VOC Annual Statistics at Etobicoke South (1997)

Unit = micrograms/m³

Compounds	Compound Class	No. of Samples	% Samples >DL	% Average Mass	PERCENTILES							Min.	Max.	Median	Mean	Std. Dev.
					5%	25%	75%	95%								
Toluene	Aromatic	56	100.00	8.392	2.17	4.74	11.07	40.37	1.06	58.18	7.14	11.67	12.61			
Benzene	Alkane	56	100.00	6.973	1.44	3.08	11.92	37.91	0.67	66.18	5.91	10.77	14.00			
Propene	Alkane	56	100.00	6.546	2.81	4.86	9.71	17.57	1.27	37.22	6.89	8.32	6.29			
Dichloromethane	Halogen	56	100.00	5.744	0.89	1.54	9.53	38.51	0.39	44.72	3.07	8.15	11.18			
Isopentane	Alkane	56	100.00	5.373	1.58	2.80	8.76	27.23	1.31	46.40	4.86	8.13	9.93			
Ethane	Alkane	56	100.00	5.135	2.48	3.73	6.93	11.06	1.63	17.67	5.25	5.81	3.08			
m and p-Xylene	Aromatic	56	100.00	4.955	1.21	2.86	6.80	17.49	0.90	36.72	5.00	6.64	7.09			
Acetylene	Alkyne	56	100.00	4.452	1.25	2.79	7.32	12.15	0.85	24.16	4.37	5.44	4.17			
Isobutane	Alkane	56	100.00	4.332	0.63	2.43	6.44	17.96	0.30	42.07	4.27	5.88	7.30			
Ethylene	Alkane	56	100.00	3.680	0.96	2.11	5.72	9.70	0.58	29.19	3.69	4.68	4.45			
Freon 12	Halogen	56	100.00	3.445	2.48	2.75	3.53	5.36	2.38	7.02	2.99	3.36	1.00			
Pentane	Alkane	56	100.00	3.049	1.03	1.74	5.10	12.18	0.77	24.54	3.29	4.43	4.69			
2-Methylpentane	Alkane	56	100.00	2.046	0.71	1.32	2.91	6.82	0.52	14.99	1.99	2.70	2.59			
Benzene	Aromatic	56	100.00	1.864	0.68	1.37	2.87	4.64	0.55	10.54	1.89	2.36	1.82			
Freon 11	Halogen	53	100.00	1.836	1.59	1.71	1.94	2.29	1.52	2.82	1.80	1.86	0.26			
Ethylbenzene	Aromatic	56	100.00	1.474	0.42	0.92	2.07	5.59	0.31	11.17	1.48	1.96	2.00			
Hexane	Alkane	56	100.00	1.443	0.39	0.73	2.19	9.18	0.26	17.00	1.26	2.26	3.18			
Propylene	Alkane	56	100.00	1.346	0.43	0.81	2.08	3.55	0.19	11.41	1.44	1.81	1.74			
o-Xylene	Aromatic	56	100.00	1.321	0.36	0.84	1.80	5.09	0.26	10.53	1.25	1.84	2.00			
Chloromethane	Halogen	56	100.00	1.123	0.87	0.96	1.10	1.20	0.81	1.40	1.03	1.03	0.11			
3-Methylpentane	Alkane	56	100.00	1.087	0.37	0.67	1.76	3.90	0.26	10.37	1.12	1.57	1.70			
1,2,4-Trimethylbenzene	Aromatic	56	100.00	1.074	0.29	0.68	1.83	4.34	0.20	10.00	1.01	1.53	1.65			
1-Butene/Isobutene	Alkene	56	100.00	1.022	0.41	0.66	1.49	3.43	0.38	6.75	1.06	1.34	1.21			
Freon 22	Halogen	56	100.00	0.830	0.48	0.57	0.98	2.05	0.37	4.30	0.74	0.95	0.68			
3-Methylhexane	Alkane	56	100.00	0.834	0.18	0.46	1.23	2.52	0.15	8.07	0.76	1.09	1.21			
Heptane	Alkane	56	100.00	0.793	0.19	0.44	1.12	2.63	0.14	14.23	0.68	1.16	1.96			
Carbon tetrachloride	Halogen	56	100.00	0.745	0.60	0.64	0.71	0.78	0.50	0.82	0.68	0.68	0.06			
2,2,4-Trimethylpentane	Alkane	56	100.00	0.744	0.26	0.51	1.11	2.43	0.17	5.57	0.74	1.02	1.02			
Tetrachloroethylene	Halogen	56	100.00	0.726	0.22	0.44	1.09	2.49	0.17	4.62	0.71	0.93	0.82			
2-Methylhexane	Alkane	56	100.00	0.706	0.16	0.41	1.15	2.17	0.08	8.95	0.69	1.03	1.31			
1,1,1-Trichloroethane	Halogen	56	100.00	0.647	0.46	0.54	0.68	0.89	0.44	1.13	0.58	0.62	0.15			
Decane	Alkane	56	100.00	0.653	0.18	0.36	0.90	3.54	0.15	8.78	0.65	0.99	1.35			
3-Ethylhexane	Aromatic	56	100.00	0.643	0.18	0.40	1.04	2.55	0.12	6.02	0.62	0.92	1.01			
Methylcyclopentane	Alkane	56	100.00	0.626	0.18	0.33	0.94	2.49	0.13	11.12	0.55	1.01	1.73			
Naphthalene	Aromatic	56	100.00	0.628	0.13	0.25	1.07	2.02	0.04	3.64	0.56	0.79	0.76			
Styrene	Aromatic	52	86.54	0.556	0.00	0.14	0.83	3.57	0.00	8.23	0.35	0.88	1.50			
Undecane	Alkane	56	100.00	0.499	0.13	0.28	0.76	2.25	0.06	5.62	0.47	0.72	0.88			
2-Methyl-2-butene	Alkene	56	100.00	0.473	0.16	0.22	0.84	2.57	0.12	5.71	0.41	0.73	0.99			
2,3-Dimethylpentane	Alkane	56	100.00	0.465	0.12	0.28	0.76	1.26	0.09	3.24	0.43	0.58	0.52			
2,3-Dimethylbutane	Alkane	56	100.00	0.453	0.16	0.28	0.72	1.57	0.10	3.97	0.42	0.64	0.68			
Trichloroethylene	Halogen	53	100.00	0.419	0.14	0.22	0.64	2.32	0.08	7.05	0.38	0.68	1.06			
Octane	Alkane	56	100.00	0.393	0.10	0.20	0.46	2.54	0.06	11.96	0.29	0.70	1.69			
Nonane	Alkane	56	100.00	0.389	0.12	0.22	0.49	1.87	0.10	8.30	0.38	0.61	1.13			
3-Methylheptane	Alkane	56	100.00	0.371	0.10	0.22	0.49	2.35	0.05	5.88	0.36	0.58	0.93			

TABLE 40 VOC Annual Statistics at Etobicoke South (1997)

Unit = micrograms/m³

Compounds	Compound Class	No. of Samples	% Samples >DL	% Average Mass	PERCENTILES							Mean	Std. Dev.
					5%	25%	75%	95%	Min.	Max.	Median		
Methylcyclohexane	Alkane	56	100.00	0.371	0.11	0.20	0.53	0.99	0.10	15.06	0.33	0.69	2.00
1,3,5-Trimethylbenzene	Aromatic	56	100.00	0.363	0.10	0.23	0.59	1.40	0.08	3.40	0.34	0.52	0.56
Cyclopentane	Alkane	56	100.00	0.318	0.11	0.18	0.53	1.27	0.10	2.53	0.28	0.45	0.46
4-Ethyltoluene	Aromatic	56	100.00	0.317	0.10	0.20	0.50	1.20	0.08	2.55	0.31	0.44	0.44
2-Methylheptane	Alkane	54	85.19	0.292	0.00	0.12	0.42	1.18	0.00	6.28	0.26	0.44	0.89
2,3,4-Trimethylpentane	Alkane	56	100.00	0.296	0.11	0.19	0.47	1.15	0.05	2.59	0.30	0.41	0.44
1,4-Diethylbenzene	Aromatic	56	100.00	0.288	0.08	0.16	0.49	1.18	0.04	2.62	0.24	0.41	0.44
1,2,3-Trimethylbenzene	Aromatic	56	100.00	0.265	0.08	0.18	0.45	1.09	0.06	2.55	0.25	0.38	0.41
2-Ethyltoluene	Aromatic	56	100.00	0.262	0.08	0.16	0.42	0.98	0.06	2.16	0.27	0.36	0.36
cis-2-Pentene	Alkane	56	100.00	0.255	0.07	0.12	0.39	1.31	0.04	3.08	0.21	0.39	0.53
1,3-Butadiene	Alkane	56	100.00	0.250	0.06	0.14	0.40	0.70	0.04	2.19	0.24	0.33	0.33
trans-2-Butene	Alkane	56	100.00	0.245	0.07	0.14	0.42	0.97	0.03	2.12	0.22	0.35	0.38
cis-2-Butene	Alkane	56	100.00	0.243	0.07	0.14	0.42	1.07	0.06	2.14	0.22	0.35	0.40
1-Pentene	Alkane	56	100.00	0.238	0.10	0.14	0.36	0.82	0.04	1.87	0.22	0.32	0.33
Dodecane	Alkane	56	100.00	0.235	0.06	0.14	0.34	0.70	0.04	1.61	0.20	0.29	0.26
2,2-Dimethylbutane	Alkane	56	100.00	0.231	0.10	0.14	0.37	0.72	0.07	1.78	0.24	0.31	0.29
1-Heptane	Alkane	56	92.86	0.233	0.00	0.15	0.35	0.66	0.00	1.97	0.24	0.30	0.31
Cyclohexane	Alkane	56	100.00	0.218	0.08	0.14	0.32	0.72	0.05	4.23	0.22	0.32	0.56
n-Propylbenzene	Aromatic	56	100.00	0.211	0.07	0.15	0.34	0.78	0.06	1.68	0.22	0.29	0.28
2,4-Dimethylpentane	Alkane	56	100.00	0.206	0.06	0.14	0.33	0.61	0.05	1.99	0.20	0.29	0.31
Isoprene	Alkene	54	100.00	0.194	0.06	0.12	0.26	0.71	0.06	1.17	0.19	0.25	0.23
Freon114	Halogen	56	100.00	0.194	0.11	0.12	0.22	0.26	0.10	0.27	0.17	0.18	0.05
cis-1,3-Dimethylcyclo	Alkane	56	100.00	0.191	0.04	0.09	0.25	1.25	0.03	4.58	0.14	0.32	0.68
trans-2-Pentene	Alkane	56	100.00	0.179	0.04	0.10	0.29	0.71	0.02	1.06	0.17	0.24	0.22
2,4-Dimethylhexane	Alkane	56	100.00	0.172	0.06	0.11	0.26	0.56	0.04	2.19	0.16	0.24	0.32
1,4-Dichlorobenzene	Halogen	56	100.00	0.159	0.04	0.10	0.25	0.57	0.04	1.15	0.14	0.21	0.22
2-Methyl-1-butene	Alkene	56	100.00	0.160	0.03	0.06	0.25	0.46	0.02	0.58	0.16	0.18	0.14
Chloroform	Halogen	56	100.00	0.157	0.08	0.12	0.18	0.35	0.05	0.49	0.14	0.17	0.09
Bromomethane	Halogen	56	100.00	0.142	0.06	0.07	0.16	0.20	0.06	0.37	0.12	0.13	0.06
1,2-Dichloroethane	Halogen	56	98.21	0.138	0.03	0.06	0.10	0.55	0.00	2.92	0.08	0.17	0.41
2,5-Dimethylhexane	Alkane	56	100.00	0.137	0.05	0.08	0.20	0.49	0.02	1.37	0.14	0.19	0.21
1-Decene	Alkene	51	11.76	0.137	0.00	0.00	0.00	0.97	0.00	4.02	0.00	0.16	0.65
4-Methylheptane	Alkane	54	87.04	0.120	0.00	0.06	0.17	0.78	0.00	3.18	0.12	0.21	0.45
Isobutane	Aromatic	56	100.00	0.118	0.04	0.07	0.19	0.40	0.02	0.88	0.12	0.16	0.15
trans-1,2-Dimethylcyclo	Alkene	56	91.07	0.115	0.00	0.05	0.15	0.84	0.00	2.51	0.08	0.19	0.39
p-Cymene	Aromatic	56	98.21	0.109	0.03	0.06	0.18	0.36	0.00	0.51	0.09	0.13	0.12
Chloroethane	Halogen	56	91.07	0.098	0.00	0.06	0.12	0.45	0.00	1.43	0.09	0.14	0.24
trans-2-Octene	Alkene	56	87.50	0.094	0.00	0.04	0.13	0.49	0.00	1.00	0.08	0.12	0.17
1-Methylcyclopentane	Alkene	56	100.00	0.085	0.02	0.04	0.14	0.34	0.01	0.87	0.08	0.13	0.15
iso-Propylbenzene	Aromatic	56	100.00	0.077	0.04	0.06	0.11	0.24	0.02	0.55	0.08	0.10	0.09
Cyclopentane	Alkene	56	100.00	0.073	0.02	0.04	0.10	0.25	0.01	0.57	0.08	0.10	0.10
Dibromomethane	Halogen	56	92.86	0.072	0.00	0.03	0.08	0.12	0.00	0.14	0.06	0.06	0.04
2,2-Dimethylbutane	Alkane	56	89.29	0.068	0.00	0.02	0.06	0.32	0.00	0.57	0.03	0.07	0.11
1,3-Diethylbenzene	Aromatic	56	100.00	0.066	0.02	0.04	0.10	0.23	0.02	0.51	0.06	0.09	0.09

TABLE 40 VOC Annual Statistics at Etobicoke South (1997)

Unit -micrograms/m³

Compounds	Compound Class	No. of Samples	% Samples > DL	% Average Mass	PERCENTILES							Mean	Std. Dev.
					5%	25%	75%	95%	Min.	Max.	Median		
2,2-Dimethylpentane	Alkane	56	98.21	0.057	0.02	0.04	0.10	0.15	0.00	0.64	0.06	0.08	0.09
n-Butylbenzene	Aromatic	56	98.21	0.056	0.02	0.04	0.09	0.23	0.00	0.49	0.05	0.08	0.08
2,2-Dimethylpropane	Alkane	56	89.29	0.055	0.00	0.03	0.08	0.16	0.00	0.25	0.06	0.07	0.05
Cyclohexane	Alkene	51	98.04	0.053	0.02	0.04	0.08	0.14	0.00	0.17	0.06	0.07	0.04
trans-2-Hexene	Alkene	56	94.64	0.051	0.01	0.04	0.08	0.22	0.00	0.43	0.05	0.07	0.08
trans-1,4-Dimethylcyclohexane	Alkane	56	50.00	0.049	0.00	0.00	0.07	0.67	0.00	1.67	0.01	0.11	0.30
trans-4-Methyl-2-pentene	Alkene	56	21.43	0.045	0.00	0.00	0.00	0.49	0.00	0.98	0.00	0.08	0.20
1-Methylcyclohexene	Alkene	56	83.93	0.046	0.00	0.02	0.08	0.14	0.00	0.31	0.06	0.06	0.06
cis-3-Methyl-2-pentene	Alkene	56	83.93	0.044	0.00	0.02	0.09	0.17	0.00	0.37	0.05	0.07	0.07
3,6-Dimethylcyclohexane	Alkane	56	71.43	0.043	0.00	0.00	0.08	0.24	0.00	0.81	0.05	0.07	0.12
1,1-Dichloroethylene	Halogen	56	62.50	0.041	0.00	0.00	0.06	0.08	0.00	0.08	0.04	0.04	0.03
cis-2-Octene	Alkene	56	25.00	0.041	0.00	0.00	0.01	0.31	0.00	0.78	0.00	0.05	0.13
cis-1,4-H-1,3-Dimethyl	Alkene	56	62.50	0.040	0.00	0.00	0.06	0.34	0.00	0.95	0.03	0.07	0.15
Bromodorm	Halogen	53	100.00	0.038	0.02	0.02	0.05	0.06	0.01	0.06	0.04	0.04	0.02
sec-Butylbenzene	Aromatic	56	94.64	0.037	0.01	0.02	0.06	0.12	0.00	0.29	0.04	0.05	0.05
cis-4-Methyl-2-pentene	Alkene	56	28.57	0.034	0.00	0.00	0.05	0.31	0.00	0.94	0.00	0.07	0.17
Bromodichloromethane	Halogen	56	37.50	0.034	0.00	0.00	0.06	0.10	0.00	0.11	0.00	0.03	0.04
Dibromochloromethane	Halogen	56	58.93	0.033	0.00	0.00	0.05	0.06	0.00	0.08	0.02	0.03	0.03
1-Octene	Alkene	49	28.57	0.031	0.00	0.00	0.05	0.26	0.00	2.83	0.00	0.09	0.41
2,2,5-Trimethylhexane	Alkane	56	42.86	0.029	0.00	0.00	0.04	0.17	0.00	0.67	0.00	0.05	0.11
cis-2-Hexene	Alkene	56	71.43	0.029	0.00	0.00	0.06	0.13	0.00	0.24	0.04	0.04	0.05
iso-Butylbenzene	Aromatic	56	98.21	0.028	0.01	0.02	0.04	0.08	0.00	0.18	0.03	0.04	0.03
cis-1,2-Dichloroethyl	Halogen	56	62.50	0.029	0.00	0.00	0.05	0.08	0.00	0.15	0.04	0.03	0.03
1,1-Dichloroethane	Halogen	56	67.86	0.027	0.00	0.00	0.04	0.06	0.00	0.09	0.03	0.03	0.02
Benzylchloride	Halogen	53	54.72	0.025	0.00	0.00	0.05	0.16	0.00	0.39	0.03	0.04	0.07
trans-3-Methyl-2-pentene	Alkene	56	50.00	0.026	0.00	0.00	0.08	0.16	0.00	0.30	0.01	0.05	0.07
1,1,2,2-Tetrachloroeth	Halogen	56	46.43	0.025	0.00	0.00	0.04	0.06	0.00	0.09	0.00	0.02	0.03
1,2-Diethylbenzene	Aromatic	56	83.93	0.023	0.00	0.01	0.04	0.08	0.00	0.14	0.02	0.03	0.03
1-Nonene	Alkene	45	26.67	0.023	0.00	0.00	0.03	0.20	0.00	1.92	0.00	0.08	0.30
EDB	Halogen	56	44.64	0.022	0.00	0.00	0.04	0.06	0.00	0.06	0.00	0.02	0.02
3-Methyl-1-pentene	Alkene	56	35.71	0.021	0.00	0.00	0.04	0.13	0.00	0.32	0.00	0.03	0.06
cis-2-Heptene	Alkene	56	28.57	0.020	0.00	0.00	0.05	0.16	0.00	0.25	0.00	0.03	0.06
trans-1,2-Dichloroeth	Halogen	56	53.57	0.019	0.00	0.00	0.04	0.04	0.00	0.06	0.01	0.02	0.02
1-Heptene	Alkene	53	5.66	0.019	0.00	0.00	0.00	0.05	0.00	0.40	0.00	0.01	0.06
2-Ethyl-1-Butene	Alkene	56	50.00	0.014	0.00	0.00	0.03	0.12	0.00	0.23	0.00	0.03	0.05
Ethylbenzene	Halogen	56	41.07	0.015	0.00	0.00	0.03	0.11	0.00	0.26	0.00	0.02	0.05
4-Methyl-1-pentene	Alkene	56	25.00	0.014	0.00	0.00	0.01	0.11	0.00	0.06	0.00	0.01	0.02
1,2-Dichloropropane	Halogen	56	28.57	0.014	0.00	0.00	0.02	0.06	0.00	0.06	0.00	0.01	0.02
1,1,2-Trichloroethane	Halogen	56	19.64	0.013	0.00	0.00	0.00	0.06	0.00	0.07	0.00	0.02	0.03
trans-2-Heptene	Alkene	56	41.07	0.009	0.00	0.00	0.02	0.07	0.00	0.15	0.00	0.01	0.01
Vinylchloride	Halogen	56	28.57	0.007	0.00	0.00	0.01	0.03	0.00	0.04	0.00	0.01	0.03
2,2,3-Trimethylbutan	Alkane	56	30.36	0.006	0.00	0.00	0.02	0.04	0.00	0.20	0.00	0.01	0.03
tert-Butylbenzene	Aromatic	56	25.00	0.004	0.00	0.00	0.00	0.03	0.00	0.06	0.00	0.01	0.01
cis-3-Heptene	Alkene	53	3.77	0.004	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.02	0.15

TABLE 40 VOC Annual Statistics at Etobicoke South (1997)
Unit -micrograms/m³

Compounds	Compound Class	No. of Samples	% Samples >DL	% Average Mass	PERCENTILES							Max.	Median	Mean	Std. Dev.
					5%	25%	75%	95%	Min.	Max.					
1-Butyne	Alkyne	56	8.93	0.002	0.00	0.00	0.00	0.04	0.00	0.09	0.00	0.00	0.02		
trans-3-Hexene	Alkene	55	12.73	0.000	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00		
trans-1,3-Dichloropro	Halogen	56	1.79	0.000	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00		
cis-1,3-Dichloropro	Halogen	56	1.79	0.000	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00		
Hexylbenzene	Aromatic	56	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Bromochlorometha	Halogen	56	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Chlorobenzene	Halogen	56	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1,4-Dichlorobutane	Halogen	56	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1,3-Dichlorobenzene	Halogen	56	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1,2-Dichlorobenzene	Halogen	56	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1,2,4-Trichlorobenzene	Halogen	56	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Hexachlorobutadiene	Halogen	56	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

TABLE 41 VOC Annual Statistics at Hamilton Downtown (1997)

Unit =micrograms/m³

Compounds	Compound Class	No. of Samples	% Samples > DL	% Average Mass	P E R C E N T I L E S							Mean	Std. Dev.
					5%	25%	75%	90%	Min.	Max.	Median		
Ethane	Alkane	59	100.00	6.464	1.70	2.38	7.88	14.80	1.52	34.30	4.86	6.98	6.22
Toluene	Aromatic	59	100.00	6.400	1.72	2.85	8.19	16.53	0.78	39.92	4.88	7.22	6.98
Isopentane	Alkane	59	100.00	5.889	2.03	3.65	6.79	10.34	1.36	23.81	4.88	6.07	4.34
Ethane	Alkane	59	100.00	5.681	2.22	3.12	6.62	8.90	2.07	16.53	4.51	5.31	2.80
Propane	Alkane	59	100.00	5.340	1.79	2.49	5.52	8.42	1.10	28.60	4.24	5.18	4.47
Acetylene	Alkyne	59	100.00	4.231	1.91	2.41	4.43	6.57	1.51	10.56	3.54	3.91	1.84
Hexane	Alkane	59	100.00	4.127	0.47	0.84	6.62	20.88	0.29	71.68	1.16	6.67	12.92
Freon 12	Halogen	59	100.00	3.821	2.50	2.77	3.16	3.57	2.28	5.36	2.88	3.06	0.57
m and p-Xylene	Aromatic	59	100.00	3.652	1.03	1.62	5.29	9.20	0.52	14.64	3.02	4.10	3.48
Ethylene	Alkene	59	100.00	3.365	1.18	1.97	3.92	5.19	0.76	7.86	2.76	3.14	1.61
Pentane	Alkane	59	100.00	3.244	1.21	2.03	3.65	5.57	0.93	11.64	2.70	3.25	2.11
Isobutane	Alkane	59	100.00	2.960	0.92	1.32	3.52	6.62	0.80	12.49	2.36	3.16	2.60
2-Methylpentane	Alkane	59	100.00	2.954	0.77	1.59	3.63	6.23	0.58	11.22	2.28	3.06	2.34
Dichloromethane	Halogen	59	100.00	2.705	0.93	1.54	2.87	3.64	0.78	7.20	2.10	2.33	1.23
Benzene	Aromatic	59	100.00	2.590	0.75	1.18	3.93	6.59	0.61	14.18	1.72	2.94	2.85
Naphthalene	Aromatic	59	100.00	2.528	0.16	0.50	3.85	9.12	0.07	34.66	0.90	3.58	6.43
3-Methylpentane	Alkane	59	100.00	2.288	0.45	0.80	3.26	8.57	0.25	22.62	1.15	3.19	4.66
Freon 11	Halogen	53	100.00	2.167	1.68	1.79	1.93	2.02	1.52	2.24	1.84	1.86	0.15
Chloroethane	Halogen	59	100.00	1.378	0.87	0.98	1.14	1.20	0.81	1.24	1.04	1.05	0.10
Propylene	Alkene	59	100.00	1.349	0.50	0.82	1.44	2.36	0.36	4.47	1.14	1.32	0.81
1-Butene/Isobutene	Alkene	59	100.00	1.202	0.52	0.70	1.34	1.98	0.32	4.42	0.99	1.15	0.70
Ethylbenzene	Aromatic	59	100.00	1.191	0.37	0.63	1.68	2.69	0.18	4.05	0.94	1.27	0.94
1,2,4-Trimethylbenzene	Aromatic	59	100.00	1.152	0.36	0.68	1.45	2.15	0.17	3.86	0.94	1.16	0.78
o-Xylene	Aromatic	59	100.00	1.102	0.37	0.55	1.42	2.46	0.18	4.05	0.94	1.18	0.90
Methylcyclopentane	Alkane	59	100.00	0.909	0.20	0.35	1.15	2.93	0.13	11.40	0.48	1.23	1.85
Carbon tetrachloride	Halogen	59	100.00	0.891	0.60	0.66	0.72	0.74	0.60	0.84	0.68	0.68	0.05
2,2,4-Trimethylpentane	Alkane	59	100.00	0.894	0.32	0.53	0.99	1.32	0.19	2.92	0.76	0.86	0.50
1,1,1-Trichloroethane	Halogen	59	100.00	0.827	0.50	0.60	0.70	0.78	0.46	1.78	0.64	0.67	0.19
Freon 22	Halogen	59	100.00	0.780	0.41	0.47	0.69	0.97	0.36	2.19	0.54	0.65	0.36
Tetrachloroethylene	Halogen	59	100.00	0.763	0.17	0.32	0.97	1.80	0.14	3.96	0.55	0.78	0.70
3-Methylhexane	Alkane	59	100.00	0.754	0.24	0.40	0.93	1.38	0.16	2.42	0.64	0.76	0.52
2-Methylhexane	Alkane	59	100.00	0.693	0.17	0.38	0.92	1.39	0.14	2.56	0.58	0.72	0.56
3-Ethylhexane	Aromatic	59	100.00	0.688	0.20	0.40	0.83	1.27	0.11	2.47	0.55	0.70	0.46
Heptane	Alkane	59	100.00	0.622	0.22	0.33	0.81	1.28	0.14	2.74	0.46	0.66	0.52
2,3-Dimethylpentane	Alkane	59	100.00	0.596	0.18	0.30	0.69	1.12	0.11	1.93	0.44	0.56	0.38
2,3-Dimethylbutane	Alkane	59	100.00	0.562	0.17	0.33	0.62	1.19	0.10	2.01	0.44	0.58	0.43
2-Methyl-2-butene	Alkane	59	98.31	0.531	0.17	0.32	0.61	0.98	0.11	2.50	0.42	0.54	0.43
Undecane	Alkane	59	100.00	0.440	0.10	0.20	0.49	1.00	0.00	1.84	0.28	0.38	0.38
Dodecane	Alkane	59	100.00	0.409	0.12	0.22	0.50	0.87	0.06	1.50	0.32	0.43	0.34
1,3,5-Trimethylbenzene	Aromatic	59	100.00	0.392	0.11	0.22	0.46	0.80	0.06	1.28	0.34	0.40	0.27
Cyclopentane	Alkane	59	100.00	0.375	0.14	0.24	0.41	0.65	0.08	1.25	0.31	0.37	0.22
4-Ethylhexane	Aromatic	59	100.00	0.347	0.12	0.21	0.41	0.59	0.06	1.05	0.30	0.35	0.21
3-Methylheptane	Alkane	59	100.00	0.341	0.12	0.20	0.40	0.70	0.06	1.09	0.28	0.34	0.23

TABLE 41 VOC Annual Statistics at Hamilton Downtown (1997)
Unit -micrograms/m³

Compounds	Compound Class	No. of Samples	% Samples >DL	% Average	PERCENTILES							Median	Mean	Std. Dev.
					5%	25%	75%	90%	Min.	Max.	Min.			
1,4-Dimethylbenzene	Aromatic	59	100.00	0.327	0.10	0.20	0.39	0.63	0.04	1.03	0.26	0.33	0.33	0.22
2,3,4-Trimethylpentane	Alkane	59	100.00	0.323	0.13	0.21	0.38	0.54	0.06	1.14	0.26	0.31	0.19	0.19
Cyclohexane	Alkane	59	100.00	0.321	0.07	0.14	0.44	0.67	0.06	2.92	0.22	0.35	0.43	0.43
Nonane	Alkane	59	100.00	0.314	0.10	0.16	0.38	0.74	0.07	1.22	0.24	0.33	0.26	0.26
2,2-Dimethylbutane	Alkane	59	100.00	0.302	0.12	0.19	0.32	0.49	0.06	1.09	0.24	0.32	0.20	0.20
Methylcyclohexane	Alkane	59	100.00	0.294	0.08	0.15	0.41	0.74	0.06	1.32	0.22	0.32	0.27	0.27
2-Methylheptane	Alkane	59	98.31	0.295	0.09	0.16	0.34	0.63	0.00	1.00	0.23	0.30	0.23	0.23
1-Hexane	Alkane	59	93.22	0.296	0.00	0.16	0.31	0.59	0.00	1.21	0.24	0.29	0.24	0.24
2-Ethylhexane	Alkane	59	100.00	0.289	0.09	0.16	0.34	0.48	0.04	0.85	0.26	0.28	0.17	0.17
1,2,3-Trimethylbenzene	Aromatic	59	100.00	0.288	0.09	0.16	0.35	0.54	0.04	0.86	0.24	0.28	0.18	0.18
cis-2-Pentene	Alkene	59	100.00	0.281	0.09	0.15	0.31	0.51	0.06	1.54	0.20	0.29	0.28	0.28
Dodecane	Alkane	59	100.00	0.274	0.07	0.10	0.30	0.54	0.03	1.04	0.19	0.26	0.22	0.22
1-Pentene	Alkene	59	100.00	0.265	0.10	0.15	0.27	0.48	0.08	1.21	0.20	0.26	0.20	0.20
Octane	Alkane	59	100.00	0.266	0.08	0.14	0.32	0.62	0.05	1.10	0.20	0.29	0.25	0.25
Styrene	Aromatic	53	90.57	0.266	0.00	0.08	0.33	0.73	0.00	2.81	0.18	0.30	0.43	0.43
cis-2-Butene	Alkene	59	100.00	0.262	0.08	0.15	0.33	0.54	0.06	1.31	0.20	0.27	0.21	0.21
Isoprene	Alkene	53	98.11	0.264	0.08	0.12	0.34	0.46	0.00	0.61	0.20	0.24	0.15	0.15
2,4-Dimethylpentane	Alkane	59	100.00	0.250	0.10	0.15	0.28	0.43	0.05	0.80	0.22	0.25	0.15	0.15
trans-2-Butene	Alkene	59	100.00	0.242	0.08	0.14	0.34	0.46	0.06	1.04	0.18	0.25	0.19	0.19
Fresnil 14	Halogen	59	100.00	0.233	0.11	0.12	0.22	0.24	0.10	0.26	0.18	0.18	0.05	0.05
1,3-Butadiene	Alkene	59	98.31	0.233	0.09	0.15	0.24	0.39	0.00	0.66	0.20	0.22	0.12	0.12
n-Propylbenzene	Aromatic	59	100.00	0.224	0.08	0.14	0.26	0.39	0.04	0.65	0.19	0.22	0.13	0.13
1,4-Dichlorobenzene	Halogen	59	100.00	0.201	0.08	0.11	0.21	0.34	0.06	0.79	0.15	0.19	0.14	0.14
2-Methyl-1-butene	Alkene	59	100.00	0.186	0.04	0.07	0.26	0.31	0.02	0.50	0.14	0.17	0.12	0.12
trans-2-Pentene	Alkene	59	100.00	0.185	0.06	0.10	0.25	0.30	0.03	0.47	0.14	0.18	0.11	0.11
2,4-Dimethylbenzene	Alkene	59	100.00	0.173	0.06	0.11	0.19	0.31	0.03	0.63	0.14	0.17	0.11	0.11
Bromomethane	Halogen	59	100.00	0.166	0.06	0.08	0.16	0.18	0.05	0.35	0.13	0.13	0.05	0.05
Trichloroethylene	Halogen	53	100.00	0.166	0.07	0.10	0.24	0.40	0.04	1.04	0.12	0.19	0.18	0.18
p-Cymene	Aromatic	59	86.44	0.164	0.00	0.06	0.16	0.37	0.00	0.55	0.08	0.14	0.14	0.14
Isobutene	Aromatic	59	100.00	0.148	0.05	0.09	0.16	0.27	0.02	0.46	0.12	0.15	0.09	0.09
Chloroform	Halogen	59	100.00	0.146	0.08	0.10	0.14	0.16	0.06	0.21	0.12	0.12	0.03	0.03
2,5-Dimethylbenzene	Alkane	59	94.92	0.128	0.02	0.06	0.15	0.23	0.00	0.49	0.12	0.13	0.09	0.09
Chloroethane	Halogen	59	93.22	0.112	0.00	0.06	0.12	0.13	0.00	0.20	0.09	0.09	0.04	0.04
4-Methylpentane	Alkene	59	86.44	0.106	0.00	0.06	0.15	0.25	0.00	0.44	0.10	0.12	0.10	0.10
cis-1,3-Dimethylcyclohexane	Alkene	59	94.92	0.102	0.02	0.04	0.16	0.26	0.00	0.68	0.08	0.12	0.14	0.14
1-Methylcyclopentene	Alkene	59	100.00	0.096	0.03	0.06	0.11	0.17	0.02	0.37	0.08	0.09	0.06	0.06
1-Heptene	Alkene	59	13.56	0.089	0.00	0.00	0.00	0.22	0.00	1.67	0.00	0.06	0.23	0.23
Dibromomethane	Halogen	59	94.92	0.086	0.01	0.03	0.10	0.12	0.00	0.12	0.06	0.06	0.04	0.04
trans-4-Methyl-2-pentene	Alkene	59	20.34	0.076	0.00	0.00	0.00	0.36	0.00	1.20	0.00	0.09	0.23	0.23
Cyclopentane	Alkene	59	100.00	0.084	0.03	0.05	0.09	0.12	0.02	0.27	0.08	0.08	0.04	0.04
2,2-Dimethylbenzene	Alkene	59	84.75	0.085	0.00	0.02	0.06	0.12	0.00	1.01	0.04	0.08	0.16	0.16
1-Decene	Alkene	53	7.55	0.085	0.00	0.00	0.00	0.00	0.00	1.03	0.00	0.06	0.22	0.22
iso-Propylbenzene	Aromatic	59	100.00	0.083	0.03	0.06	0.10	0.14	0.01	0.22	0.07	0.08	0.05	0.05
1,2-Dichloroethane	Halogen	59	100.00	0.081	0.04	0.05	0.08	0.10	0.02	0.14	0.06	0.06	0.06	0.06

TABLE 41 VOC Annual Statistics at Hamilton Downtown (1997)

Unit -micrograms/m³

P E R C E N T I L E S										
Compound	Compound Class	No. of Samples	% Samples >DL	% Average Mass	5%	25%	75%	90%	Min.	Max.
2,2-Dimethylpentane	Alkane	59	98.31	0.076	0.03	0.04	0.09	0.12	0.00	0.23
1,3-Diethylbenzene	Aromatic	59	100.00	0.075	0.02	0.04	0.08	0.13	0.01	0.21
Cyclohexene	Alkene	55	96.36	0.0653	0.01	0.04	0.08	0.10	0.00	0.16
n-Butylbenzene	Aromatic	59	94.92	0.062	0.02	0.04	0.07	0.10	0.00	0.18
cis-3-Methyl-2-pentene	Alkene	59	88.14	0.061	0.00	0.04	0.08	0.11	0.00	0.19
cis-4-Methyl-2-pentene	Alkene	59	32.20	0.059	0.00	0.00	0.08	0.24	0.00	0.67
1-Methylcyclohexene	Alkene	59	83.05	0.060	0.00	0.04	0.08	0.11	0.00	0.23
trans-2-Hexene	Alkene	59	100.00	0.058	0.02	0.04	0.06	0.09	0.01	0.16
2,2-Dimethylpropane	Alkane	59	93.22	0.057	0.00	0.02	0.08	0.09	0.00	0.15
1-Octene	Alkene	54	33.33	0.054	0.00	0.00	0.10	0.16	0.00	0.33
trans-2-Octene	Alkene	59	67.80	0.054	0.00	0.00	0.10	0.16	0.00	0.42
trans-1,2-Dimethylcyclohexene	Alkene	59	67.80	0.050	0.00	0.00	0.09	0.17	0.00	0.10
1,1-Dichloroethylene	Halogen	59	61.02	0.050	0.00	0.00	0.06	0.08	0.00	0.11
Bromoforn	Halogen	53	98.11	0.044	0.02	0.02	0.05	0.06	0.00	0.08
Bromodichloromethane	Halogen	59	38.98	0.038	0.00	0.00	0.06	0.06	0.00	0.14
Dibromodichloromethane	Halogen	59	57.63	0.035	0.00	0.00	0.06	0.07	0.00	0.12
cis-2-Hexene	Alkene	59	71.19	0.035	0.00	0.00	0.02	0.04	0.00	0.11
sec-Butylbenzene	Aromatic	59	88.14	0.033	0.00	0.00	0.00	0.18	0.00	0.24
cis-2-Heptene	Alkene	59	23.73	0.032	0.01	0.02	0.04	0.04	0.00	0.07
iso-Butylbenzene	Aromatic	59	96.61	0.032	0.00	0.00	0.04	0.06	0.00	0.06
1,1-Dichloroethane	Halogen	59	57.63	0.032	0.00	0.00	0.06	0.11	0.00	0.24
2,2,5-Trimethylhexane	Alkane	59	33.90	0.030	0.00	0.00	0.06	0.11	0.00	0.08
1,1,2,2-Tetrachloroethane	Halogen	59	52.54	0.030	0.00	0.00	0.04	0.06	0.00	0.15
3,6-Dimethyloctane	Alkane	59	57.63	0.026	0.00	0.00	0.05	0.08	0.00	0.10
1,2-Diethylbenzene	Aromatic	59	74.58	0.027	0.00	0.00	0.04	0.05	0.00	0.09
Benzylchloride	Halogen	53	56.60	0.026	0.00	0.00	0.05	0.06	0.00	0.06
cis-1,2-Dichloroethylene	Halogen	59	61.02	0.025	0.00	0.00	0.04	0.04	0.00	0.15
trans-3-Methyl-2-pentene	Alkene	59	38.98	0.023	0.00	0.00	0.05	0.09	0.00	0.08
trans-1,2-Dichloroethylene	Halogen	59	49.15	0.022	0.00	0.00	0.04	0.04	0.00	0.06
1-Nonene	Alkene	48	20.83	0.021	0.00	0.00	0.00	0.11	0.00	0.48
cis-2-Octene	Alkene	59	27.12	0.021	0.00	0.00	0.03	0.08	0.00	0.20
cis-1,4,1,3-Dimethylcyclohexene	Alkene	59	55.93	0.021	0.00	0.00	0.03	0.06	0.00	0.16
3-Methyl-1-pentene	Alkene	59	25.42	0.021	0.00	0.00	0.01	0.10	0.00	0.20
trans-1,4-Dimethylcyclohexane	Alkene	59	44.07	0.020	0.00	0.00	0.03	0.08	0.00	0.18
EDB	Halogen	59	37.29	0.020	0.00	0.00	0.04	0.06	0.00	0.08
2-Ethyl-1-Butene	Alkene	59	50.85	0.017	0.00	0.00	0.03	0.05	0.00	0.10
Ethylchloride	Halogen	59	35.59	0.017	0.00	0.00	0.03	0.04	0.00	0.06
cis-3-Heptene	Alkene	59	10.17	0.016	0.00	0.00	0.00	0.02	0.00	0.53
1,2-Dichloropropane	Halogen	59	28.81	0.014	0.00	0.00	0.02	0.04	0.00	0.10
4-Methyl-1-pentene	Alkene	59	15.25	0.013	0.00	0.00	0.00	0.07	0.00	0.19
trans-2-Heptene	Alkene	59	30.51	0.009	0.00	0.00	0.02	0.04	0.00	0.08
2,2,3-Trimethylbutane	Alkane	59	32.20	0.009	0.00	0.00	0.02	0.03	0.00	0.06
1,1,2-Trichloroethane	Halogen	59	20.34	0.008	0.00	0.00	0.00	0.03	0.00	0.08
cis-1,3-Dichloropropene	Halogen	59	8.47	0.006	0.00	0.00	0.00	0.00	0.00	0.13

TABLE 41 VOC Annual Statistics at Hamilton Downtown (1997)
Unit -micrograms/m³

Compounds	Compound Class	No. of Samples	% Samples >DL	% Average Mass	PERCENTILES							Max.	Median	Mean	Std. Dev.
					5%	25%	75%	95%	Min.						
1,4-Dichlorobenzene	Halogen	59	6.78	0.006	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.01		
Chlorobenzene	Halogen	59	18.64	0.006	0.00	0.00	0.00	0.02	0.00	0.07	0.00	0.01	0.01		
trans-1,3-Dichlorocyclopentane	Halogen	59	3.39	0.005	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.02		
1,2,4-Trichlorobenzene	Halogen	59	8.47	0.004	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.01		
tert-Butylbenzene	Aromatic	59	20.34	0.005	0.00	0.00	0.00	0.03	0.00	0.06	0.00	0.01	0.01		
Vinylchloride	Halogen	59	22.03	0.005	0.00	0.00	0.00	0.02	0.00	0.04	0.00	0.00	0.01		
1-Butyne	Alkyne	59	11.86	0.003	0.00	0.00	0.00	0.03	0.00	0.04	0.00	0.00	0.01		
1,2-Dichlorobenzene	Halogen	59	5.08	0.002	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.01		
Bromodichloromethane	Halogen	59	1.69	0.001	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.01		
trans-3-Heptene	Alkene	59	11.86	0.001	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00		
Hexachlorobutadiene	Halogen	59	10.17	0.001	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00		
Hexylbenzene	Aromatic	59	1.69	0.000	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00		
1,3-Dichlorobenzene	Halogen	59	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

TABLE 42 VOC Annual Statistics at Ottawa (1997)

Unit -micrograms/m³

Compounds	Compound Class	No. of Samples	% Samples >DL	% Average Min	PERCENTILES					Max	Median	Mean	Std. Dev.
					5%	25%	75%	95%	99%				
Chlorine	Aromatic	59	100.00	6.859	0.86	2.21	5.42	7.67	0.30	23.69	3.42	4.42	4.15
Isopentane	Alkane	59	100.00	6.542	0.91	2.34	5.65	9.08	0.50	11.67	4.01	4.46	2.88
Butane	Alkane	59	100.00	5.681	0.71	1.31	6.66	10.88	0.46	15.23	3.60	4.65	3.91
Freon12	Halogen	59	100.00	5.631	2.33	2.58	2.88	3.03	1.78	4.48	2.76	2.76	0.36
Ethane	Alkane	59	98.31	5.389	1.33	2.14	4.36	5.04	0.00	6.43	2.99	3.19	1.39
Propane	Alkane	59	100.00	4.968	0.69	1.89	4.67	5.79	0.58	7.63	3.02	3.41	1.92
Acetylene	Alkyne	59	100.00	3.873	0.91	1.54	4.09	5.90	0.77	8.14	2.59	3.13	1.96
Isobutane	Alkane	59	100.00	3.639	0.44	0.75	3.77	6.12	0.38	9.41	1.96	2.72	2.26
Ethylene	Alkane	59	100.00	3.326	0.73	1.18	2.96	4.02	0.39	7.24	1.97	2.32	1.56
Freon11	Halogen	56	100.00	2.912	1.42	1.65	1.84	1.90	1.34	2.02	1.74	1.73	0.16
2-Methylpentane	Alkane	59	100.00	2.852	0.49	1.16	2.23	3.10	0.20	3.73	1.59	1.74	0.88
m and p-Xylene	Aromatic	59	100.00	2.667	0.53	0.90	2.22	3.52	0.22	4.88	1.76	1.81	1.10
Pentane	Alkane	59	100.00	2.530	0.42	0.92	2.35	3.18	0.28	4.08	1.54	1.72	1.01
Benzene	Aromatic	59	100.00	2.005	0.55	0.90	2.26	2.99	0.34	3.80	1.42	1.59	0.90
Chloroethane	Halogen	59	100.00	1.427	0.83	0.90	1.03	1.07	0.81	1.24	0.97	0.97	0.10
1-Butene/Isobutene	Alkane	59	100.00	1.417	0.33	0.44	1.26	1.71	0.24	2.83	0.68	0.91	0.58
3-Methylpentane	Alkane	59	100.00	1.369	0.25	0.49	1.12	1.65	0.20	2.02	0.84	0.89	0.49
Carboisothiocarbide	Halogen	59	100.00	1.274	0.56	0.63	0.70	0.72	0.48	0.79	0.66	0.66	0.06
Propylene	Alkane	59	100.00	1.175	0.24	0.40	1.08	1.81	0.08	2.84	0.74	0.85	0.63
Hexane	Alkane	59	100.00	1.146	0.28	0.37	1.04	1.23	0.14	1.54	0.67	0.73	0.38
1,1,1-Trichloroethane	Halogen	59	100.00	1.028	0.44	0.49	0.58	0.62	0.43	1.40	0.53	0.55	0.13
Freon22	Halogen	59	100.00	1.021	0.34	0.42	0.60	0.71	0.28	1.59	0.51	0.53	0.19
o-Xylene	Aromatic	59	100.00	0.973	0.20	0.34	0.79	1.24	0.08	1.67	0.61	0.64	0.37
Ethylbenzene	Aromatic	59	100.00	0.957	0.18	0.34	0.76	1.05	0.10	1.36	0.59	0.60	0.31
Tetrachloroethylene	Halogen	59	100.00	0.931	0.12	0.26	0.77	1.30	0.06	3.04	0.41	0.61	0.56
1,2,4-Trimethylbenzene	Aromatic	59	100.00	0.912	0.14	0.30	0.75	0.98	0.08	1.48	0.51	0.58	0.35
Dichloromethane	Halogen	59	100.00	0.854	0.24	0.34	0.63	0.83	0.20	1.13	0.43	0.50	0.22
Methylcyclopentane	Alkane	59	100.00	0.811	0.12	0.26	0.77	1.03	0.08	1.36	0.48	0.54	0.32
3-Methylbutane	Alkane	59	100.00	0.789	0.14	0.29	0.64	0.82	0.12	1.20	0.43	0.49	0.25
2,2,4-Trimethylpentane	Alkane	59	100.00	0.773	0.14	0.27	0.66	0.88	0.08	1.30	0.44	0.49	0.29
2-Methylbutane	Alkane	59	100.00	0.725	0.12	0.27	0.64	0.93	0.06	1.20	0.48	0.49	0.28
2-Methyl-2-butene	Alkene	59	100.00	0.675	0.14	0.23	0.59	0.94	0.04	1.55	0.40	0.48	0.35
Isoprene	Alkene	59	96.61	0.635	0.06	0.11	0.47	0.79	0.00	0.97	0.36	0.40	0.23
2,3-Dimethylbutane	Alkane	59	100.00	0.617	0.10	0.22	0.50	0.75	0.08	0.86	0.38	0.38	0.20
Heptane	Alkane	59	100.00	0.601	0.13	0.22	0.52	0.68	0.06	0.96	0.34	0.37	0.22
3-Ethyltoluene	Aromatic	59	100.00	0.581	0.10	0.19	0.47	0.72	0.06	1.11	0.32	0.35	0.21
2,2-Dimethylbutane	Alkane	59	100.00	0.489	0.10	0.18	0.46	0.63	0.06	1.07	0.24	0.28	0.17
2,3-Dimethylpentane	Alkane	59	94.92	0.466	0.10	0.16	0.36	0.50	0.06	0.98	0.19	0.26	0.21
Naphthalene	Aromatic	59	98.31	0.405	0.04	0.13	0.34	0.54	0.00	0.59	0.24	0.26	0.14
Cyclopentane	Alkane	59	100.00	0.404	0.08	0.14	0.34	0.48	0.00	0.91	0.20	0.26	0.21
cis-2-Pentene	Alkene	59	98.31	0.397	0.06	0.12	0.32	0.58	0.03	0.74	0.23	0.24	0.15
Decane	Alkane	59	98.31	0.395	0.06	0.14	0.32	0.39	0.00	0.62	0.23	0.25	0.15
3-Methylheptane	Alkane	59	94.92	0.350	0.05	0.14	0.36	0.43	0.00	0.62	0.23	0.25	0.15
2-Methylheptane	Alkane	59	91.53	#BEP1	0.00	0.12	0.30	0.39	0.00	0.57	0.22	0.22	0.13

TABLE 42 VOC Annual Statistics at Ottawa (1997)

Unit -micrograms/m³

Compounds	Compound Class	No. of Samples	% Samples >DL	% Average Mass	PERCENTILES							Median	Mean	Std. Dev.
					5%	25%	75%	95%	Min.	Max.				
car-2-Butene	Alkene	59	100.00	0.348	0.06	0.10	0.32	0.48	0.04	0.73	0.18	0.23	0.16	
1-Pentene	Alkene	59	100.00	0.349	0.08	0.12	0.24	0.38	0.02	0.60	0.18	0.21	0.13	
1-Hexene	Alkene	59	89.83	0.338	0.00	0.12	0.26	0.37	0.00	0.64	0.18	0.21	0.15	
trans-2-Butene	Alkene	59	98.31	0.332	0.04	0.09	0.35	0.50	0.00	0.66	0.18	0.23	0.18	
Frontal 14	Halogen	59	100.00	0.321	0.10	0.12	0.18	0.22	0.10	0.26	0.14	0.16	0.04	
Methylcyclohexane	Alkene	59	96.61	0.311	0.06	0.10	0.28	0.36	0.00	0.52	0.21	0.21	0.12	
Undecane	Alkene	59	96.61	0.308	0.02	0.10	0.25	0.34	0.00	0.56	0.18	0.19	0.12	
4-Ethylcyclohexane	Aromatic	59	100.00	0.302	0.06	0.11	0.25	0.33	0.02	0.46	0.18	0.19	0.10	
Octane	Alkene	59	96.61	0.301	0.06	0.11	0.24	0.30	0.00	0.68	0.15	0.18	0.12	
Nonane	Alkene	59	96.61	0.290	0.06	0.12	0.24	0.29	0.00	0.59	0.16	0.18	0.11	
1,3,5-Trimethylbenzene	Aromatic	59	100.00	0.284	0.04	0.09	0.22	0.34	0.02	0.50	0.16	0.18	0.11	
2,3,4-Trimethylpentane	Alkene	59	98.31	0.280	0.06	0.10	0.22	0.30	0.00	0.46	0.16	0.18	0.10	
Cyclohexane	Alkene	59	96.61	0.276	0.06	0.10	0.26	0.32	0.00	0.46	0.18	0.18	0.10	
Chloroform	Halogen	59	100.00	0.271	0.08	0.11	0.16	0.22	0.07	0.34	0.13	0.14	0.05	
1,4-Dichlorobenzene	Halogen	59	100.00	0.260	0.04	0.10	0.18	0.28	0.02	0.57	0.16	0.17	0.12	
2-Ethylcyclohexane	Aromatic	59	100.00	0.259	0.04	0.10	0.20	0.28	0.02	0.37	0.14	0.16	0.09	
trans-2-Pentene	Alkene	59	98.31	0.247	0.04	0.09	0.22	0.28	0.00	0.38	0.15	0.16	0.09	
1,3-Butadiene	Alkene	59	91.53	0.238	0.00	0.08	0.20	0.34	0.00	0.58	0.12	0.17	0.13	
1,2,3-Trimethylbenzene	Aromatic	59	98.31	0.232	0.04	0.09	0.19	0.24	0.00	0.34	0.14	0.14	0.08	
2,4-Dimethylpentane	Alkene	59	96.61	0.227	0.04	0.08	0.20	0.26	0.00	0.37	0.13	0.15	0.08	
Bromonaphthalene	Halogen	59	100.00	0.224	0.06	0.07	0.14	0.16	0.05	0.35	0.10	0.11	0.05	
1,4-Diethylbenzene	Aromatic	59	96.61	0.221	0.04	0.08	0.18	0.24	0.00	0.36	0.12	0.13	0.08	
n-Propylbenzene	Aromatic	59	100.00	0.223	0.04	0.08	0.18	0.22	0.04	0.28	0.12	0.13	0.07	
Styrene	Aromatic	56	80.36	0.211	0.00	0.04	0.19	0.28	0.00	1.25	0.10	0.16	0.22	
2-Methyl-1-butene	Alkene	59	94.92	0.193	0.02	0.05	0.19	0.26	0.00	0.34	0.12	0.13	0.09	
Trichloroethylene	Halogen	56	96.43	0.188	0.03	0.06	0.13	0.24	0.00	0.52	0.10	0.12	0.11	
2,4-Dimethylfluorane	Alkene	59	94.92	0.157	0.04	0.06	0.17	0.20	0.00	0.29	0.10	0.12	0.07	
Dodecane	Alkene	59	91.53	0.130	0.00	0.05	0.12	0.16	0.00	0.24	0.10	0.09	0.05	
Chlorocyclohexane	Halogen	59	89.83	0.127	0.00	0.04	0.08	0.12	0.00	0.14	0.07	0.07	0.04	
2,5-Dimethylbenzene	Alkene	59	84.75	0.124	0.00	0.04	0.12	0.15	0.00	0.26	0.07	0.08	0.06	
1-Methylcyclopentene	Alkene	59	96.61	0.119	0.03	0.04	0.10	0.14	0.00	0.26	0.07	0.08	0.05	
Indane	Aromatic	59	96.61	0.116	0.02	0.04	0.10	0.13	0.00	0.16	0.07	0.07	0.04	
p-Cymene	Aromatic	59	81.36	0.112	0.00	0.03	0.10	0.12	0.00	0.22	0.06	0.07	0.05	
1,2-Dichlorobenzene	Halogen	59	100.00	0.111	0.03	0.04	0.06	0.08	0.03	0.10	0.05	0.05	0.02	
Dibromonaphthalene	Halogen	59	86.44	0.108	0.00	0.03	0.07	0.10	0.00	0.12	0.06	0.05	0.03	
4-Methylpyrene	Alkene	59	69.49	0.109	0.00	0.00	0.14	0.16	0.00	0.26	0.07	0.08	0.07	
Cyclopentene	Alkene	59	96.61	0.109	0.02	0.04	0.08	0.12	0.00	0.15	0.06	0.07	0.04	
cis-3-Methyl-2-pentene	Alkene	59	88.14	0.103	0.00	0.03	0.08	0.10	0.00	0.26	0.05	0.06	0.04	
cis-1,3-Dimethylcyclohexane	Alkene	59	89.83	0.088	0.00	0.03	0.08	0.11	0.00	0.34	0.06	0.06	0.06	
trans-4-Methyl-2-pentene	Alkene	59	27.12	0.083	0.00	0.00	0.03	0.03	0.00	0.73	0.00	0.08	0.18	
iso-Propylbenzene	Aromatic	59	96.61	0.081	0.02	0.03	0.07	0.08	0.00	0.10	0.05	0.05	0.02	
trans-2-Hexene	Alkene	59	94.92	0.076	0.02	0.03	0.06	0.08	0.00	0.12	0.04	0.05	0.03	
1-Methylcyclohexane	Alkene	59	84.75	0.064	0.00	0.02	0.06	0.10	0.00	0.14	0.04	0.05	0.03	
2,2-Dimethylpentane	Alkene	59	83.05	0.061	0.00	0.03	0.07	0.08	0.00	0.10	0.05	0.05	0.03	

TABLE 42 VOC Annual Statistics at Ottawa (1997)
Unit -micrograms/m³

Compounds	Compound Class	No. of Samples	% Samples >DL	% Average Mass	PERCENTILES							Mean	Median	Std. Dev.
					5%	25%	75%	90%	Min.	Max.				
Cyclohexane	Alkene	51	94.12	0.061	0.00	0.03	0.06	0.08	0.00	0.10		0.04	0.04	0.02
2,2-Dimethylpropane	Alkane	59	88.14	0.061	0.00	0.02	0.05	0.07	0.00	0.10		0.04	0.04	0.02
2,2-Dimethylhexane	Alkane	59	77.97	0.057	0.00	0.01	0.04	0.04	0.00	0.38		0.03	0.03	0.05
1,1-Dichloroethylene	Halogen	59	61.02	0.057	0.00	0.00	0.04	0.08	0.00	0.08		0.02	0.03	0.03
Bromoforn	Halogen	56	92.86	0.055	0.00	0.02	0.04	0.05	0.00	0.06		0.03	0.03	0.02
1,3-Diethylbenzene	Aromatic	59	89.83	WRLEFI	0.00	0.02	0.04	0.06	0.00	0.08		0.03	0.03	0.02
Bromochloromethane	Halogen	59	44.07	0.052	0.00	0.00	0.05	0.08	0.00	0.10		0.00	0.03	0.03
cis-4-Methyl-2-pentene	Alkene	59	27.12	0.053	0.00	0.00	0.04	0.17	0.00	0.32		0.00	0.04	0.09
trans-1,2-Dimethylcyclohexane	Alkene	57	68.42	0.051	0.00	0.00	0.05	0.07	0.00	0.24		0.03	0.04	0.04
1-Heptene	Alkene	53	7.55	0.049	0.00	0.00	0.00	0.00	0.00	0.90		0.00	0.03	0.14
n-Butylbenzene	Aromatic	59	88.14	0.047	0.00	0.02	0.04	0.06	0.00	0.07		0.03	0.03	0.02
trans-2-Octene	Alkene	59	59.32	0.045	0.00	0.00	0.04	0.08	0.00	0.14		0.03	0.03	0.03
Dibromochloromethane	Halogen	59	49.15	0.043	0.00	0.00	0.04	0.06	0.00	0.08		0.00	0.02	0.03
cis-2-Hexene	Alkene	59	67.80	0.041	0.00	0.00	0.04	0.06	0.00	0.16		0.03	0.03	0.03
trans-3-Methyl-2-pentene	Alkene	59	50.85	0.041	0.00	0.00	0.06	0.08	0.00	0.13		0.02	0.03	0.05
cis-2-Heptene	Alkene	57	24.56	0.036	0.00	0.00	0.00	0.10	0.00	0.07		0.02	0.02	0.02
Benzylchloride	Halogen	56	55.36	0.033	0.00	0.00	0.03	0.05	0.00	0.06		0.00	0.01	0.02
1,1,2,2-Tetrachloroethane	Halogen	59	38.98	0.030	0.00	0.00	0.04	0.05	0.00	0.06		0.00	0.02	0.01
sec-Butylbenzene	Aromatic	59	84.75	0.028	0.00	0.01	0.02	0.04	0.00	0.04		0.02	0.02	0.03
2,2,5-Trimethylhexane	Alkane	57	36.84	0.028	0.00	0.00	0.03	0.06	0.00	0.13		0.00	0.02	0.01
iso-Butylbenzene	Aromatic	59	84.75	0.026	0.00	0.01	0.02	0.03	0.00	0.04		0.02	0.02	0.02
3,6-Dimethylcyclohexane	Alkene	59	45.76	0.026	0.00	0.00	0.04	0.05	0.00	0.09		0.00	0.02	0.03
3-Methyl-1-pentene	Alkene	57	26.32	0.024	0.00	0.00	0.02	0.08	0.00	0.12		0.00	0.02	0.02
cis-1,4-dimethylcyclohexane	Alkene	57	52.63	0.024	0.00	0.00	0.02	0.05	0.00	0.08		0.01	0.02	0.02
trans-1,2-Dichloroethylene	Halogen	59	35.59	0.023	0.00	0.00	0.02	0.04	0.00	0.06		0.00	0.01	0.02
2-Ethyl-1-Butene	Alkene	57	50.88	0.023	0.00	0.00	0.02	0.04	0.00	0.06		0.00	0.01	0.02
cis-1,2-Dichloroethylene	Halogen	59	30.51	0.023	0.00	0.00	0.02	0.04	0.00	0.06		0.00	0.01	0.03
cis-2-Octene	Alkene	59	22.03	0.022	0.00	0.00	0.00	0.05	0.00	0.12		0.00	0.01	0.02
EDB	Halogen	59	25.42	0.021	0.00	0.00	0.01	0.05	0.00	0.06		0.00	0.01	0.05
1-Decene	Alkene	51	7.84	0.021	0.00	0.00	0.00	0.00	0.00	0.32		0.00	0.01	0.02
1,1-Dichloroethane	Halogen	59	38.98	0.019	0.00	0.00	0.02	0.04	0.00	0.04		0.00	0.01	0.01
1,2-Diethylbenzene	Aromatic	59	61.02	0.019	0.00	0.00	0.02	0.03	0.00	0.04		0.01	0.01	0.01
trans-1,4-Dimethylcyclohexane	Alkene	57	45.61	0.019	0.00	0.00	0.02	0.04	0.00	0.06		0.00	0.01	0.02
1,2-Dichloropropane	Halogen	59	25.42	0.017	0.00	0.00	0.00	0.04	0.00	0.06		0.00	0.01	0.02
1-Octene	Alkene	45	17.78	0.016	0.00	0.00	0.00	0.08	0.00	0.34		0.00	0.02	0.07
Ethylbenzene	Halogen	59	27.12	0.016	0.00	0.00	0.01	0.04	0.00	0.06		0.00	0.01	0.02
1,1,2-Trichloroethane	Halogen	59	16.95	0.014	0.00	0.00	0.00	0.04	0.00	0.08		0.00	0.01	0.02
trans-2-Heptene	Alkene	57	36.84	0.011	0.00	0.00	0.02	0.04	0.00	0.20		0.00	0.02	0.04
1-Nonene	Alkene	42	14.29	0.010	0.00	0.00	0.00	0.07	0.00	0.11		0.00	0.01	0.02
4-Methyl-1-pentene	Alkene	57	14.04	0.009	0.00	0.00	0.00	0.05	0.00	0.48		0.00	0.01	0.07
cis-3-Heptene	Alkene	51	3.92	0.007	0.00	0.00	0.00	0.00	0.00	0.03		0.00	0.00	0.01
tert-Butylbenzene	Aromatic	59	16.95	0.006	0.00	0.00	0.00	0.02	0.00	0.03		0.00	0.00	0.01
Vinylchloride	Halogen	59	16.95	0.002	0.00	0.00	0.00	0.01	0.00	0.04		0.00	0.00	0.01
2,2,3-Trimethylbutane	Alkene	57	14.04	0.001	0.00	0.00	0.00	0.02	0.00	0.03		0.00	0.00	0.01

TABLE 42 VOC Annual Statistics at Ottawa (1997)
Unit -micrograms/m³

Compounds	Compound Class	No of Samples	% Samples >DL	% Average Mass	PERCENTILES							Mean	Std. Dev.
					5%	25%	75%	90%	Min.	Max.	Median		
1-Butyne	Alkyne	59	3.39	0.001	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00
1,4-Dichlorobutane	Halogen	59	3.39	0.000	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.01
Hexachlorobutadiene	Halogen	59	13.56	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
trans-3-Heptene	Alkene	54	7.41	0.000	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
Hexylbenzene	Aromatic	59	1.69	0.000	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00
cis-1,3-Dichloropropene	Halogen	59	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
trans-1,3-Dichloropropene	Halogen	59	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bromotrichloroethane	Halogen	59	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Chlorobenzene	Halogen	59	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,3-Dichlorobenzene	Halogen	59	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,2-Dichlorobenzene	Halogen	59	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,2,4-Trichlorobenzene	Halogen	59	0.00	#DIV/0!	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,3-Dichlorobenzene	Halogen	59	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

TABLE 43 VOC Annual Statistics at Point Petre (1997)

Unit =micrograms/m³

Compounds	Compound Class	No of Samples	% Samples >DLE	% Average Mass	P E R C E N T I L E S					Min.	Max.	Median	Median	Std. Dev.
					5%	25%	75%	90%	95%					
Freon12	Halogen	58	100.00	15.320	3.31	3.88	5.42	6.81	7.76	2.76	9.71	4.02	4.84	1.41
Dichloromethane	Halogen	58	100.00	14.118	0.54	0.94	3.85	22.43	40.40	250.24	1.78	11.36	35.66	
Ethane	Alkane	58	100.00	8.728	1.36	2.03	3.75	4.44	1.10	6.22	2.64	2.93	1.13	
Propane	Alkane	58	100.00	5.946	0.50	1.08	2.84	3.66	0.43	6.52	1.79	2.07	1.31	
Freon11	Halogen	52	100.00	5.394	1.63	1.84	2.09	2.18	1.54	2.35	1.96	1.96	0.19	
1,1,1-Trichloroethane	Halogen	58	100.00	4.124	0.46	0.96	1.67	2.02	0.42	2.66	1.35	1.31	0.57	
Butane	Alkane	58	100.00	3.692	0.22	0.64	1.91	2.41	0.14	4.80	1.15	1.33	0.97	
Acetylene	Alkyne	58	100.00	3.392	0.26	0.73	1.54	1.84	0.25	3.33	1.08	1.16	0.64	
Isopentane	Alkane	58	100.00	3.130	0.36	0.67	1.40	1.82	0.20	2.92	0.99	1.11	0.58	
Toluene	Aromatic	58	100.00	3.112	0.38	0.71	1.37	1.97	0.30	2.44	0.89	1.07	0.53	
Chloromethane	Halogen	58	100.00	3.029	0.84	0.92	1.02	1.05	0.71	1.24	0.97	0.97	0.09	
Carbon tetrachloride	Halogen	58	100.00	2.155	0.60	0.66	0.72	0.75	0.54	0.82	0.69	0.69	0.06	
Isobutane	Alkane	58	100.00	1.923	0.18	0.32	0.94	1.12	0.07	2.22	0.58	0.67	0.43	
2-Methylpentane	Alkane	58	100.00	1.838	0.17	0.31	0.90	1.07	0.08	1.72	0.63	0.63	0.35	
m and p-Xylene	Aromatic	58	100.00	1.795	0.23	0.40	0.73	1.10	0.02	1.37	0.54	0.61	0.31	
Ethylene	Alkane	58	100.00	1.714	0.18	0.30	0.83	1.04	0.08	2.00	0.52	0.60	0.40	
Pentane	Alkane	58	100.00	1.715	0.20	0.33	0.78	0.94	0.15	1.76	0.58	0.61	0.35	
Benzene	Aromatic	58	100.00	1.649	0.24	0.37	0.70	0.81	0.14	1.82	0.57	0.57	0.28	
Freon22	Halogen	58	100.00	1.152	0.26	0.32	0.43	0.49	0.20	0.52	0.38	0.37	0.08	
1-Butanol	Alkane	58	100.00	1.018	0.14	0.22	0.36	0.54	0.10	2.15	0.32	0.36	0.30	
Hexane	Alkane	58	98.28	0.897	0.17	0.24	0.35	0.43	0.00	0.55	0.28	0.29	0.10	
1-Butanol	Alkane	58	100.00	0.697	0.10	0.16	0.30	0.39	0.04	0.54	0.22	0.24	0.11	
Ethylbenzene	Aromatic	58	100.00	0.632	0.08	0.13	0.25	0.35	0.02	0.44	0.18	0.20	0.10	
3-Methylpentane	Alkane	58	100.00	0.593	0.08	0.13	0.25	0.35	0.02	0.44	0.18	0.20	0.10	
o-Xylene	Aromatic	58	100.00	0.541	0.09	0.14	0.22	0.26	0.08	0.42	0.17	0.18	0.07	
Tetrachloroethylene	Halogen	58	100.00	0.515	0.11	0.13	0.20	0.23	0.10	0.28	0.15	0.16	0.05	
Freon114	Halogen	58	100.00	0.483	0.05	0.09	0.23	0.30	0.00	0.50	0.14	0.17	0.11	
2,2,4-Trimethylpentane	Alkane	58	96.55	0.454	0.00	0.10	0.20	0.30	0.00	0.38	0.14	0.16	0.09	
Propylene	Alkane	58	93.10	0.431	0.03	0.07	0.20	0.28	0.00	0.43	0.12	0.15	0.10	
3-Methylhexane	Alkane	58	94.83	0.354	0.03	0.08	0.16	0.21	0.00	0.36	0.11	0.12	0.07	
Heptane	Alkane	58	94.83	0.349	0.06	0.08	0.15	0.18	0.05	0.22	0.11	0.11	0.04	
Bromomethane	Halogen	58	100.00	0.335	0.04	0.06	0.14	0.21	0.00	0.40	0.10	0.12	0.08	
Methylcyclopentane	Alkane	58	96.55	0.326	0.04	0.06	0.14	0.21	0.02	0.30	0.09	0.11	0.06	
Undecane	Alkane	52	100.00	0.314	0.04	0.08	0.16	0.18	0.02	0.22	0.11	0.10	0.02	
Trichloroethylene	Halogen	58	100.00	0.307	0.08	0.08	0.11	0.12	0.06	0.14	0.08	0.10	0.11	
Chloroform	Halogen	58	100.00	0.289	0.00	0.00	0.17	0.24	0.00	0.47	0.08	0.10	0.05	
1-Hexene	Alkane	58	53.45	0.279	0.04	0.06	0.12	0.17	0.00	0.30	0.09	0.10	0.09	
1,2,4-Trimethylbenzene	Aromatic	58	98.28	0.271	0.00	0.05	0.14	0.20	0.00	0.54	0.08	0.10	0.09	
Cyclohexane	Alkane	58	82.76	0.263	0.00	0.03	0.14	0.18	0.00	0.38	0.09	0.09	0.08	
2-Methylhexane	Alkane	58	75.86	0.255	0.03	0.06	0.10	0.14	0.00	0.24	0.09	0.09	0.04	
2,2-Dimethylbutane	Alkane	58	98.28	0.237	0.00	0.00	0.17	0.25	0.00	0.52	0.03	0.03	0.09	
Isoprene	Alkane	53	56.40	0.232	0.00	0.06	0.10	0.14	0.00	0.24	0.08	0.08	0.06	
Decane	Alkane	58	93.10	0.226	0.00	0.05	0.12	0.16	0.00	0.21	0.06	0.07	0.04	
2,3-Dimethylbutane	Alkane	58	86.21	0.220	0.02	0.04	0.10	0.13	0.00	0.35	0.06	0.08	0.08	
Dodecane	Alkane	58	94.83	0.218	0.00	0.04	0.11	0.15	0.00	0.21	0.06	0.07	0.04	
2,3-Dimethylpentane	Alkane	58	77.59	0.191	0.00	0.02	0.09	0.12	0.00	0.43	0.04	0.06	0.07	
p-Cymene	Aromatic	58	75.86	0.191	0.00	0.02	0.09	0.12	0.00	0.43	0.04	0.06	0.06	
1-Pentane	Alkane	58	79.31	0.182	0.00	0.03	0.08	0.11	0.00	0.14	0.06	0.06	0.04	
3-Ethylhexane	Aromatic	58	96.55	0.178	0.02	0.04	0.08	0.11	0.00	0.22	0.06	0.06	0.06	

TABLE 43 VOC Annual Statistics at Point Petre (1997)

Unit = micrograms/m³

Compounds	Compound Class	No. of Samples	% Samples > MCL	% Average Mass	PERCENTILES							Median	Median	Std. Dev.
					5%	25%	75%	95%	Min.	Max.	Median			
Acetone	Aromatic	58	74.21	0.171	0.00	0.00	0.08	0.13	0.00	0.18	0.06	0.06	0.06	0.03
Octane	Alkane	58	86.21	0.167	0.00	0.04	0.08	0.10	0.00	0.14	0.06	0.06	0.06	0.03
Cyclopentane	Alkane	58	84.48	0.164	0.00	0.03	0.08	0.10	0.00	0.20	0.06	0.06	0.06	0.04
Dibromomethane	Halogen	58	84.48	0.163	0.00	0.02	0.07	0.10	0.00	0.14	0.06	0.05	0.05	0.04
2-Methyl-2-butene	Alkane	58	93.10	0.161	0.00	0.04	0.07	0.08	0.00	0.14	0.06	0.05	0.05	0.03
Methylcyclohexane	Alkane	58	82.76	0.155	0.00	0.02	0.08	0.12	0.00	0.18	0.05	0.06	0.06	0.04
1,2-Dichloroethane	Halogen	58	98.28	0.156	0.02	0.04	0.06	0.08	0.00	0.10	0.05	0.05	0.05	0.02
2,3,4-Trimethylpentane	Alkane	58	82.76	0.153	0.00	0.03	0.08	0.10	0.00	0.16	0.06	0.05	0.05	0.04
Nonane	Alkane	58	82.76	0.148	0.00	0.04	0.08	0.10	0.00	0.12	0.06	0.05	0.05	0.03
3-Methylbutane	Alkane	58	72.41	0.146	0.00	0.00	0.08	0.12	0.00	0.18	0.05	0.05	0.05	0.05
Chloroethane	Halogen	58	74.14	0.135	0.00	0.01	0.07	0.08	0.00	0.12	0.04	0.04	0.04	0.03
4-Ethylbenzene	Aromatic	58	96.55	0.127	0.02	0.03	0.06	0.07	0.00	0.16	0.04	0.04	0.04	0.03
cis-2-Pentene	Alkane	58	65.52	0.123	0.00	0.00	0.07	0.09	0.00	0.15	0.04	0.04	0.04	0.04
2-Ethylbenzene	Aromatic	58	96.55	0.115	0.01	0.02	0.04	0.07	0.00	0.12	0.03	0.04	0.04	0.03
n-Propylbenzene	Aromatic	58	96.55	0.111	0.02	0.02	0.05	0.06	0.00	0.14	0.04	0.04	0.04	0.02
2,4-Dimethylpentane	Alkane	58	74.14	0.106	0.00	0.01	0.06	0.08	0.00	0.16	0.04	0.04	0.04	0.04
2-Methylbutane	Alkane	57	52.63	0.103	0.00	0.00	0.06	0.09	0.00	0.22	0.03	0.04	0.04	0.05
1,2,3-Trimethylbenzene	Aromatic	58	94.83	0.098	0.01	0.02	0.04	0.05	0.00	0.10	0.03	0.03	0.03	0.02
1,1-Dichloroethylene	Halogen	58	60.34	0.093	0.00	0.00	0.06	0.08	0.00	0.10	0.03	0.03	0.03	0.03
Bromobenzene	Halogen	52	94.23	0.088	0.01	0.02	0.04	0.06	0.00	0.08	0.03	0.03	0.03	0.02
2,4-Dimethylbenzene	Alkane	58	63.79	0.088	0.00	0.00	0.05	0.06	0.00	0.12	0.02	0.02	0.02	0.03
1,4-Dichlorobenzene	Aromatic	58	94.83	0.085	0.01	0.02	0.04	0.04	0.00	0.08	0.03	0.03	0.03	0.01
1,3,5-Trimethylbenzene	Aromatic	58	94.83	0.083	0.00	0.02	0.04	0.06	0.00	0.08	0.02	0.02	0.02	0.03
Bromodichloromethane	Halogen	58	44.83	0.081	0.00	0.00	0.05	0.06	0.00	0.10	0.00	0.03	0.03	0.03
1,4-Diethylbenzene	Aromatic	58	78.69	0.079	0.00	0.00	0.04	0.05	0.00	0.12	0.03	0.03	0.03	0.06
Styrene	Aromatic	53	32.08	0.078	0.00	0.00	0.04	0.10	0.00	0.30	0.00	0.03	0.03	0.06
iso-Propylbenzene	Aromatic	58	93.10	0.071	0.00	0.02	0.03	0.04	0.00	0.08	0.02	0.02	0.02	0.01
2,5-Dimethylbenzene	Alkane	58	48.28	0.071	0.00	0.00	0.03	0.06	0.00	0.23	0.00	0.02	0.02	0.04
Dibromochloromethane	Halogen	58	55.17	0.070	0.00	0.00	0.04	0.06	0.00	0.08	0.02	0.02	0.02	0.02
2-Methyl-1-butene	Alkane	58	58.62	0.068	0.00	0.00	0.03	0.07	0.00	0.12	0.02	0.02	0.02	0.03
2,2-Dimethylpropane	Alkane	58	70.69	0.064	0.00	0.00	0.04	0.04	0.00	0.08	0.02	0.02	0.02	0.02
1,1,2,2-Tetrachloroethane	Halogen	58	53.45	0.061	0.00	0.00	0.04	0.06	0.00	0.06	0.01	0.02	0.02	0.02
Benzylchloride	Halogen	52	53.85	0.060	0.00	0.00	0.04	0.05	0.00	0.12	0.02	0.02	0.02	0.03
Indane	Aromatic	58	82.76	0.058	0.00	0.01	0.02	0.03	0.00	0.08	0.02	0.02	0.02	0.01
1-Methylcyclohexane	Alkane	58	50.00	0.054	0.00	0.00	0.03	0.05	0.00	0.08	0.01	0.02	0.02	0.02
Cyclohexane	Alkane	49	63.27	0.054	0.00	0.00	0.04	0.05	0.00	0.07	0.02	0.02	0.02	0.02
cis-2-Heptene	Alkane	56	21.43	0.051	0.00	0.00	0.00	0.08	0.00	0.15	0.00	0.02	0.02	0.04
1,1-Dichloroethane	Halogen	58	51.72	0.047	0.00	0.00	0.03	0.04	0.00	0.06	0.01	0.02	0.02	0.02
1,2-Dichloropropane	Halogen	58	39.66	0.046	0.00	0.00	0.02	0.04	0.00	0.08	0.00	0.01	0.01	0.02
cis-2-Butene	Alkane	58	46.55	0.044	0.00	0.00	0.03	0.04	0.00	0.06	0.00	0.02	0.02	0.02
cis-1,2-Dichloroethylene	Halogen	58	46.55	0.042	0.00	0.00	0.02	0.04	0.00	0.06	0.00	0.01	0.01	0.02
Cyclopentane	Alkane	58	55.17	0.039	0.00	0.00	0.02	0.03	0.00	0.06	0.01	0.01	0.01	0.02
cis-1,3-Dimethylcyclohexane	Alkane	58	51.72	0.039	0.00	0.00	0.02	0.03	0.00	0.06	0.01	0.01	0.01	0.02
1-Methylcyclopentene	Alkane	58	46.55	0.037	0.00	0.00	0.02	0.04	0.00	0.05	0.00	0.01	0.01	0.02
trans-1,2-Dichloroethylene	Halogen	58	37.93	0.035	0.00	0.00	0.02	0.04	0.00	0.06	0.00	0.01	0.01	0.02
Ethylbenzene	Halogen	58	39.66	0.033	0.00	0.00	0.02	0.04	0.00	0.06	0.00	0.01	0.01	0.02
trans-2-Butene	Alkane	58	36.84	0.033	0.00	0.00	0.02	0.04	0.00	0.09	0.00	0.01	0.01	0.02
4-Methylbutane	Alkane	57			0.00	0.00	0.02	0.04	0.00	0.09	0.00	0.01	0.01	0.02

TABLE 43 VOC Annual Statistics at Point Petre (1997)

Unit = micrograms/m³

Compounds	Compound Class	No. of Samples	% Samples > 0.1	% Average Mass	PERCENTILES						Median	Std. Dev.
					5%	25%	75%	95%	Min.	Max.		
1,3-Dichlorobenzene	Alkene	58	18.97	0.031	0.00	0.00	0.00	0.03	0.00	0.24	0.00	0.01
EDB	Halogen	58	29.31		0.00	0.00	0.02	0.03	0.00	0.08	0.00	0.01
2,2-Dimethylhexane	Alkane	58	39.66	0.030	0.00	0.00	0.01	0.03	0.00	0.12	0.00	0.01
1-Heptene	Alkene	57	8.77	0.028	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.01
cis-3-Methyl-2-pentene	Alkene	58	17.24	0.027	0.00	0.00	0.00	0.01	0.00	0.22	0.00	0.01
sec-Butylbenzene	Aromatic	58	58.62	0.026	0.00	0.00	0.02	0.02	0.00	0.06	0.01	0.01
iso-Butylbenzene	Aromatic	58	53.45	0.025	0.00	0.00	0.01	0.02	0.00	0.04	0.01	0.01
1,1,2-Trichloroethane	Halogen	58	24.14	0.025	0.00	0.00	0.00	0.04	0.00	0.04	0.00	0.01
1,3-Dichlorobenzene	Aromatic	58	46.55	0.023	0.00	0.00	0.01	0.02	0.00	0.04	0.00	0.01
2,2-Dimethylpentane	Alkane	58	32.76	0.023	0.00	0.00	0.02	0.03	0.00	0.08	0.00	0.01
trans-4-Methyl-2-pentene	Alkene	58	8.62	0.019	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.01
n-Butylbenzene	Aromatic	58	43.10	0.020	0.00	0.00	0.01	0.02	0.00	0.04	0.00	0.01
cis-4-Methyl-2-pentene	Alkene	58	27.41	0.017	0.00	0.00	0.00	0.02	0.00	0.05	0.00	0.01
1,2-Dichlorobenzene	Aromatic	58	36.21	0.018	0.00	0.00	0.01	0.02	0.00	0.09	0.00	0.01
1-Octene	Alkene	46	15.22	0.017	0.00	0.00	0.00	0.02	0.00	0.06	0.00	0.01
2,2,5-Trimethylhexane	Alkane	56	23.21	0.016	0.00	0.00	0.00	0.03	0.00	0.06	0.00	0.01
trans-1,2-Dimethylcyclohexane	Alkane	56	28.57	0.015	0.00	0.00	0.01	0.02	0.00	0.03	0.00	0.01
trans-2-Pentene	Alkene	58	36.21	0.014	0.00	0.00	0.01	0.01	0.00	0.04	0.00	0.01
trans-2-Hexene	Alkene	58	32.76	0.013	0.00	0.00	0.01	0.01	0.00	0.04	0.00	0.01
trans-2-Octene	Alkene	58	15.52	0.012	0.00	0.00	0.00	0.02	0.00	0.05	0.00	0.01
Vinylacetate	Halogen	58	20.69	0.009	0.00	0.00	0.00	0.01	0.00	0.03	0.00	0.01
trans-1,4-Dimethylcyclohexane	Alkane	56	21.43	0.009	0.00	0.00	0.00	0.02	0.00	0.03	0.00	0.01
trans-2-Heptene	Alkene	56	17.66	0.009	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.01
cis-2-Octene	Alkene	58	8.62	0.006	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.01
cis-1,4,1,3-Dimethylcyclohexane	Alkane	56	23.21	0.006	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.01
4-Methyl-1-pentene	Alkene	56	7.14	0.005	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.01
3-Methyl-1-pentene	Alkene	56	5.36	0.004	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.01
3,6-Dimethylcyclohexane	Alkane	58	10.34	0.004	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.01
1-Butyne	Alkyne	58	5.17	0.004	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.01
tert-Butylbenzene	Aromatic	58	1.72	0.002	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00
cis-1,3-Dichloropropene	Halogen	58	1.72	0.001	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
2-Ethyl-1-Butene	Alkene	56	5.36	0.001	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
cis-2-Hexene	Alkene	58	1.72	0.000	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
trans-3-Methyl-2-pentene	Alkene	58	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,2,3-Trimethylbutane	Alkane	55	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
trans-3-Heptene	Alkene	55	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cis-3-Heptene	Alkene	41	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1-Nonene	Alkene	50	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hexylbenzene	Aromatic	58	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
trans-1,3-Dichloropropene	Halogen	58	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bromobenzotrifluoride	Halogen	58	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Chlorobenzene	Halogen	58	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,4-Dichlorobenzene	Halogen	58	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,3-Dichlorobenzene	Halogen	58	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,2-Dichlorobenzene	Halogen	58	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,2,4-Trichlorobenzene	Halogen	58	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hexachlorobutadiene	Halogen	58	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

TABLE 44 VOC Annual Statistics at Sarnia (1997)

Unit - micrograms/m³

Compounds	Compound Class	No. of Samples	% Samples >DL	% Average Mass	P E R C E N T I L E S							Max.	Median	Mean	Std. Dev.
					5%	25%	75%	95%	Min.						
Ethane	Alkane	57	100.00	7.687	2.16	3.03	8.74	12.11	1.28	21.34	4.95	6.24	4.15		
Propane	Alkane	57	100.00	7.291	0.95	2.16	10.93	17.78	0.66	48.14	4.66	8.09	9.11		
Isopentane	Alkane	57	100.00	6.254	0.85	2.05	9.78	19.14	0.68	39.91	3.66	7.29	8.43		
Butane	Alkane	57	100.00	5.836	0.67	1.44	9.20	17.70	0.35	43.98	3.24	7.39	9.48		
Freon12	Halogen	57	100.00	5.600	2.31	2.64	2.89	3.42	2.11	11.08	2.80	2.99	1.20		
Toluene	Aromatic	57	100.00	4.809	0.59	1.78	6.24	11.11	0.46	46.98	3.44	5.17	6.29		
Ethylene	Alkene	57	100.00	4.170	0.54	0.90	8.05	18.30	0.04	46.53	1.69	6.12	9.37		
Acetylene	Alkyne	57	100.00	3.654	0.89	1.54	3.22	4.21	0.56	9.31	2.43	2.65	1.59		
2-Methylpentane	Alkane	57	100.00	3.641	0.44	1.02	5.54	8.07	0.24	97.84	1.86	4.85	12.84		
Pentane	Alkane	57	100.00	3.532	0.51	1.08	6.52	10.72	0.40	15.04	2.26	3.95	4.01		
Isobutane	Alkane	57	100.00	3.038	0.37	0.69	4.84	10.60	0.24	22.44	1.76	3.93	4.91		
Freon11	Halogen	53	100.00	3.056	1.43	1.67	1.80	1.88	1.26	2.21	1.73	1.73	0.17		
Chloromethane	Halogen	57	100.00	2.782	0.92	0.98	3.28	7.30	0.85	28.56	1.10	3.14	4.78		
m and p-Xylene	Aromatic	57	100.00	2.215	0.33	0.70	2.70	4.44	0.24	8.64	1.49	2.20	2.03		
Benzene	Aromatic	57	100.00	2.114	0.37	0.70	3.31	5.55	0.32	15.76	1.18	2.45	2.98		
Cyclohexane	Alkane	57	92.98	1.928	0.00	0.08	4.93	13.87	0.00	27.22	0.22	3.87	6.81		
Propylene	Alkene	57	100.00	1.827	0.31	0.48	3.08	6.40	0.26	38.50	0.76	2.87	5.69		
1-Butene/Isobutene	Alkene	57	100.00	1.842	0.19	0.48	4.27	6.58	0.16	14.15	0.83	2.52	3.13		
Hexane	Alkane	57	100.00	1.737	0.19	0.38	3.46	5.22	0.18	42.70	0.98	2.56	5.74		
3-Methylpentane	Alkane	57	100.00	1.293	0.57	0.64	0.71	0.72	0.50	1.06	0.67	0.67	0.08		
Carbon tetrachloride	Halogen	57	100.00	1.023	0.43	0.50	0.57	0.62	0.39	0.71	0.55	0.54	0.07		
1,1,1-Trichloroethane	Halogen	57	100.00	0.922	0.30	0.39	0.62	0.76	0.26	1.71	0.47	0.53	0.23		
Freon22	Halogen	57	100.00	0.858	0.23	0.34	0.58	0.91	0.20	2.83	0.43	0.54	0.42		
Dichloromethane	Halogen	57	100.00	0.830	0.14	0.28	1.33	2.10	0.10	4.10	0.54	0.90	0.88		
Ethylbenzene	Aromatic	57	100.00	0.810	0.12	0.26	1.33	2.19	0.08	5.44	0.46	0.95	1.14		
2,2,4-Trimethylpentane	Alkane	57	100.00	0.768	0.14	0.28	0.91	1.50	0.10	2.82	0.54	0.74	0.65		
o-Xylene	Aromatic	57	100.00	0.749	0.14	0.26	0.92	1.35	0.10	2.82	0.46	0.69	0.58		
1,2,4-Trimethylbenzene	Aromatic	57	100.00	0.704	0.09	0.24	1.34	2.19	0.07	3.32	0.37	0.83	0.86		
Methylcyclopentane	Alkane	57	100.00	0.703	0.09	0.18	1.10	1.76	0.06	22.49	0.36	1.04	2.96		
2,3-Dimethylbutane	Alkane	57	100.00	0.685	0.12	0.28	0.82	1.27	0.10	1.90	0.42	0.60	0.45		
3-Methylbutane	Alkane	57	100.00	0.641	0.00	0.14	0.62	1.21	0.00	20.34	0.26	0.94	2.79		
1-Hexene	Alkene	57	92.98	0.614	0.10	0.21	0.80	1.36	0.03	2.09	0.34	0.61	0.55		
2-Methylhexane	Alkane	57	100.00	0.562	0.10	0.19	0.80	1.39	0.07	2.30	0.40	0.58	0.54		
Heptane	Alkane	57	100.00	0.528	0.10	0.18	0.72	1.23	0.07	2.09	0.32	0.52	0.50		
2-Methyl-2-butene	Alkene	57	100.00	0.518	0.06	0.12	0.76	1.08	0.05	26.66	0.25	0.89	3.50		
Cyclopentane	Alkane	57	100.00	0.491	0.09	0.18	0.56	0.83	0.08	1.72	0.38	0.44	0.37		
3-Ethylbutane	Aromatic	57	100.00	0.473	0.08	0.16	0.54	0.90	0.04	1.62	0.29	0.41	0.35		
2,3-Dimethylpentane	Alkane	57	100.00	0.424	0.07	0.14	0.54	0.92	0.05	7.25	0.24	0.49	0.96		
2,2-Dimethylbutane	Alkane	56	96.43	0.378	0.03	0.08	0.45	0.75	0.00	3.90	0.15	0.34	0.58		
Isoprene	Alkene	57	100.00	0.373	0.08	0.14	0.32	0.62	0.07	2.54	0.22	0.34	0.41		
Tetrachloroethylene	Halogen	57	100.00	0.364	0.00	0.13	0.51	0.85	0.00	1.20	0.25	0.34	0.30		
Naphthalene	Aromatic	57	92.98	0.318	0.02	0.09	0.46	1.12	0.00	1.68	0.20	0.39	0.44		
Freon114	Halogen	57	100.00	0.349	0.11	0.14	0.22	0.26	0.09	0.30	0.16	0.18	0.06		
Methylcyclohexane	Alkane	57	94.74	0.318	0.02	0.09	0.46	1.12	0.00	4.30	0.12	0.50	0.88		
1,3-Butadiene	Alkene	57	82.46	0.306	0.00	0.06	0.63	1.25	0.00	1.06	0.17	0.28	0.27		
cis-2-Pentene	Alkene	57	100.00	0.311	0.07	0.11	0.36	0.74	0.04	1.06	0.17	0.28	0.27		
cis-2-Butene	Alkene	57	96.49	0.297	0.04	0.08	0.48	1.13	0.00	4.40	0.12	0.44	0.72		
1-Pentene	Alkene	57	100.00	0.292	0.08	0.12	0.30	0.60	0.04	1.72	0.18	0.27	0.28		
Undecane	Alkane	57	98.25	0.291	0.04	0.08	0.36	0.66	0.00	1.10	0.20	0.27	0.26		

TABLE 44 VOC Annual Statistics at Sarnia (1997)

Unit = micrograms/m³

Compound	Class	No. of Samples	% Samples > D.L.	% Average Mass	PERCENTILES					Min.	Max.	Median	Mean	Std. Dev.
					5%	25%	75%	90%						
3-Methylbutane	Alkane	57	54.74	0.756	0.02	0.12	0.38	0.59	0.00	0.56	0.18	0.28	0.33	0.34
Decane	Alkane	57	94.74	0.283	0.03	0.08	0.42	0.74	0.00	1.78	0.20	0.32	0.34	0.34
trans-2-Butene	Alkene	57	87.72	0.264	0.00	0.06	0.50	1.05	0.00	3.40	0.12	0.41	0.65	0.65
2,3,4-Trimethylpentane	Alkane	57	100.00	0.269	0.06	0.10	0.33	0.52	0.03	1.36	0.16	0.27	0.27	0.27
Styrene	Aromatic	56	69.64	0.274	0.00	0.00	0.40	0.94	0.00	3.27	0.12	0.38	0.67	0.67
Octane	Alkane	57	100.00	0.263	0.05	0.08	0.39	0.71	0.03	1.40	0.16	0.28	0.29	0.29
4-Ethyltoluene	Aromatic	57	100.00	0.259	0.05	0.10	0.26	0.43	0.04	0.86	0.17	0.23	0.18	0.18
1,3,5-Trimethylbenzene	Aromatic	57	100.00	0.249	0.04	0.08	0.32	0.51	0.04	0.88	0.16	0.23	0.19	0.19
2-Methylpentane	Alkane	56	87.50	0.244	0.00	0.09	0.34	0.66	0.00	1.03	0.19	0.26	0.25	0.25
Nonane	Alkane	57	92.98	0.242	0.00	0.10	0.42	0.69	0.00	1.40	0.15	0.27	0.28	0.28
Bromomethane	Halogen	57	100.00	0.239	0.06	0.09	0.17	0.20	0.05	0.22	0.12	0.13	0.05	0.05
2-Ethyltoluene	Aromatic	57	100.00	0.213	0.04	0.08	0.22	0.32	0.02	0.64	0.15	0.18	0.14	0.14
1,4-Dichlorobenzene	Aromatic	57	96.49	0.212	0.04	0.08	0.26	0.38	0.00	0.64	0.13	0.19	0.15	0.15
2,4-Dimethylpentane	Alkane	57	92.98	0.211	0.00	0.08	0.26	0.50	0.00	0.80	0.15	0.22	0.19	0.19
2-Methyl-1-butane	Alkane	57	94.74	0.207	0.02	0.06	0.20	0.38	0.00	0.86	0.12	0.17	0.17	0.17
Chloroform	Halogen	57	100.00	0.203	0.08	0.09	0.14	0.16	0.07	0.25	0.11	0.12	0.04	0.04
Dodecane	Alkane	57	94.74	0.198	0.02	0.06	0.24	0.42	0.00	0.72	0.11	0.18	0.16	0.16
1,2,3-Trimethylbenzene	Aromatic	57	100.00	0.194	0.04	0.07	0.24	0.32	0.02	0.64	0.13	0.17	0.13	0.13
n-Propylbenzene	Aromatic	57	100.00	0.190	0.04	0.08	0.19	0.29	0.04	0.54	0.14	0.16	0.12	0.12
trans-2-Pentene	Alkene	57	100.00	0.189	0.03	0.06	0.24	0.40	0.02	1.14	0.09	0.17	0.19	0.19
2,4-Dimethylhexane	Alkane	57	92.98	0.175	0.00	0.07	0.24	0.41	0.00	0.80	0.12	0.18	0.18	0.18
Trichloroethylene	Halogen	53	100.00	0.164	0.04	0.06	0.15	0.23	0.02	0.74	0.10	0.13	0.11	0.11
1,4-Dichlorobenzene	Halogen	57	96.49	0.152	0.02	0.06	0.13	0.22	0.00	0.43	0.08	0.11	0.08	0.08
Dibromomethane	Halogen	57	85.96	0.127	0.00	0.03	0.10	0.12	0.00	0.14	0.05	0.06	0.04	0.04
1,2-Dichloroethane	Halogen	57	96.49	0.120	0.03	0.05	0.10	0.14	0.00	0.58	0.07	0.09	0.09	0.09
2,5-Dimethylhexane	Alkane	57	82.46	0.111	0.00	0.04	0.16	0.27	0.00	0.66	0.07	0.12	0.15	0.15
Chloroethane	Halogen	57	75.44	0.112	0.00	0.04	0.11	0.12	0.00	0.28	0.07	0.07	0.05	0.05
Iodane	Aromatic	57	96.49	0.100	0.02	0.04	0.10	0.15	0.00	0.30	0.07	0.08	0.06	0.06
Cyclopentene	Alkene	57	96.49	0.097	0.02	0.04	0.10	0.13	0.00	0.24	0.06	0.07	0.05	0.05
1-Methylcyclopentene	Alkene	57	96.49	0.096	0.02	0.04	0.10	0.17	0.00	0.34	0.06	0.08	0.06	0.06
cis-2-Heptene	Alkene	54	35.19	0.095	0.00	0.00	0.12	0.21	0.00	0.59	0.09	0.07	0.12	0.12
iso-Propylbenzene	Aromatic	57	82.46	0.093	0.00	0.02	0.14	0.26	0.00	0.44	0.06	0.07	0.05	0.05
cis-1,3-Dimethylcyclohexane	Alkene	57	100.00	0.091	0.02	0.04	0.08	0.15	0.02	0.18	0.06	0.07	0.05	0.05
4-Methylpentane	Alkane	56	75.00	0.086	0.00	0.01	0.16	0.24	0.00	0.30	0.06	0.09	0.09	0.09
2,2-Dimethylpropane	Alkane	57	94.74	0.081	0.01	0.03	0.08	0.15	0.00	0.20	0.05	0.06	0.05	0.05
1,1-Dichloroethylene	Halogen	57	71.93	0.080	0.00	0.00	0.07	0.08	0.00	0.10	0.04	0.04	0.03	0.03
Cyclohexane	Alkene	51	94.12	0.075	0.01	0.03	0.08	0.10	0.00	0.22	0.04	0.05	0.04	0.04
1-Methylcyclohexene	Alkene	57	84.21	0.070	0.00	0.03	0.08	0.10	0.00	0.13	0.00	0.03	0.04	0.04
Bromodichloromethane	Halogen	57	42.11	0.064	0.00	0.00	0.06	0.09	0.00	0.07	0.04	0.04	0.02	0.02
Bromochloroethane	Halogen	53	96.23	0.063	0.01	0.02	0.06	0.06	0.00	0.07	0.04	0.04	0.06	0.06
1,3-Dichlorobenzene	Aromatic	57	91.23	0.061	0.00	0.02	0.08	0.14	0.00	0.26	0.04	0.06	0.06	0.06
1-Octene	Alkene	46	23.91	0.060	0.00	0.00	0.00	0.20	0.00	1.98	0.00	0.08	0.30	0.30
2,2-Dimethylhexane	Alkane	57	77.19	0.060	0.00	0.01	0.04	0.06	0.00	0.66	0.03	0.05	0.12	0.12
p-Cymene	Aromatic	57	75.44	0.057	0.00	0.02	0.08	0.10	0.00	0.18	0.04	0.05	0.04	0.04
cis-3-Methyl-2-pentene	Alkene	57	78.95	0.056	0.00	0.01	0.10	0.14	0.00	0.22	0.04	0.06	0.06	0.06
trans-2-Hexene	Alkene	57	82.46	0.055	0.00	0.01	0.10	0.16	0.00	0.48	0.04	0.07	0.09	0.09
2,2-Dimethylpentane	Alkane	57	75.44	0.055	0.00	0.01	0.10	0.15	0.00	0.22	0.05	0.06	0.06	0.06
Dibromodichloromethane	Halogen	57	63.16	0.055	0.00	0.00	0.06	0.07	0.00	0.10	0.02	0.03	0.03	0.03
Vinylchloride	Halogen	57	61.40	0.050	0.00	0.00	0.14	0.22	0.00	0.68	0.02	0.08	0.14	0.14

TABLE 44 VOC Annual Statistics at Sarnia (1997)

Unit - micrograms/m³

Compound	Class	No. of Samples	% Samples > DL	% Average Mass	PERCENTILES							Mean	Std. Dev.
					5%	25%	75%	95%	Min.	Max.	Median		
1,1,2,2-Tetrachloroethane	Halogen	57	59.65	0.051	0.00	0.00	0.05	0.06	0.00	0.08	0.01	0.03	0.03
1,1-Dichloroethane	Halogen	57	66.67	0.047	0.00	0.00	0.05	0.06	0.00	0.12	0.03	0.03	0.03
trans-2-Octene	Alkene	57	56.14	0.047	0.00	0.00	0.08	0.22	0.00	0.48	0.02	0.06	0.09
trans-4-Methyl-2-pentene	Alkene	57	19.30	0.042	0.00	0.00	0.00	0.22	0.00	2.01	0.00	0.10	0.34
n-Butylbenzene	Aromatic	57	85.96	0.045	0.00	0.02	0.06	0.08	0.00	0.14	0.03	0.04	0.03
cis-4-Methyl-2-pentene	Alkene	57	24.56	0.043	0.00	0.00	0.00	0.24	0.00	0.58	0.00	0.06	0.16
trans-1,2-Dimethylcyclohexane	Alkane	54	62.96	0.041	0.00	0.00	0.09	0.17	0.00	0.32	0.03	0.06	0.08
cis-1,2-Dichloroethylene	Halogen	57	64.91	0.040	0.00	0.00	0.04	0.05	0.00	0.06	0.02	0.02	0.02
1-Heptene	Alkene	57	7.02	0.040	0.00	0.00	0.00	0.00	0.00	6.12	0.00	0.13	0.81
sec-Butylbenzene	Aromatic	57	85.96	0.038	0.00	0.01	0.04	0.06	0.00	0.09	0.02	0.03	0.02
Benzylchloride	Halogen	53	56.60	0.037	0.00	0.00	0.06	0.08	0.00	0.10	0.02	0.03	0.03
3-Methyl-1-pentene	Alkene	54	37.04	0.033	0.00	0.00	0.07	0.12	0.00	0.52	0.00	0.04	0.09
trans-1,2-Dichloroethylene	Halogen	57	56.14	0.034	0.00	0.00	0.04	0.04	0.00	0.06	0.01	0.02	0.02
cis-2-Octene	Alkene	57	33.33	0.032	0.00	0.00	0.03	0.12	0.00	0.62	0.00	0.04	0.10
iso-Butylbenzene	Aromatic	57	84.21	0.031	0.00	0.01	0.04	0.05	0.00	0.07	0.02	0.02	0.02
cis-2-Hexene	Alkene	57	57.89	0.030	0.00	0.00	0.08	0.12	0.00	0.34	0.02	0.05	0.07
1,2-Dichloropropane	Halogen	57	43.86	0.031	0.00	0.00	0.04	0.06	0.00	0.08	0.00	0.02	0.03
trans-3-Methyl-2-pentene	Alkene	57	47.37	0.029	0.00	0.00	0.08	0.14	0.00	0.35	0.00	0.05	0.07
EDB	Halogen	57	38.60	0.029	0.00	0.00	0.04	0.06	0.00	0.08	0.00	0.02	0.03
1,1,2-Trichloroethane	Halogen	57	35.09	0.029	0.00	0.00	0.04	0.07	0.00	0.13	0.00	0.02	0.03
Ethylbenzene	Aromatic	57	45.61	0.027	0.00	0.00	0.03	0.05	0.00	0.08	0.00	0.02	0.02
1,2-Dichlorobenzene	Halogen	57	78.95	0.027	0.00	0.01	0.03	0.04	0.00	0.06	0.02	0.02	0.02
4-Methyl-1-pentene	Alkene	54	31.48	0.024	0.00	0.00	0.03	0.11	0.00	0.34	0.00	0.03	0.07
trans-1,4-Dimethylcyclohexane	Alkane	54	40.74	0.023	0.00	0.00	0.02	0.09	0.00	1.14	0.00	0.04	0.16
2,2,5-Trimethylhexane	Alkane	54	29.63	0.019	0.00	0.00	0.02	0.08	0.00	0.21	0.00	0.02	0.04
cis-1,4R,1,3-Dimethylcyclohexane	Alkene	54	51.85	0.018	0.00	0.00	0.04	0.07	0.00	0.14	0.01	0.02	0.03
1-Nonene	Alkene	45	20.00	0.016	0.00	0.00	0.00	0.08	0.00	0.22	0.00	0.02	0.06
2-Ethyl-1-Butene	Alkene	54	44.44	0.014	0.00	0.00	0.02	0.07	0.00	0.14	0.00	0.02	0.03
cis-3-Heptene	Alkene	54	9.26	0.011	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.02	0.07
3,6-Dimethylcyclohexane	Alkene	57	31.58	0.010	0.00	0.00	0.02	0.05	0.00	0.14	0.00	0.02	0.04
trans-2-Heptene	Alkene	54	31.48	0.009	0.00	0.00	0.01	0.04	0.00	0.08	0.00	0.01	0.02
tert-Butylbenzene	Aromatic	57	28.07	0.009	0.00	0.00	0.01	0.03	0.00	0.04	0.00	0.01	0.01
2,2,3-Trimethylbutane	Alkane	54	22.22	0.004	0.00	0.00	0.00	0.04	0.00	0.09	0.00	0.01	0.02
1-Butyne	Alkyne	57	8.77	0.003	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.01
1,4-Dichlorobutane	Halogen	57	1.75	0.001	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.01
trans-3-Heptene	Alkene	53	14.81	0.001	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.01
1-Decene	Alkene	57	1.75	0.001	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00
cis-1,3-Dichloropropene	Halogen	57	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hexylbenzene	Aromatic	57	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
trans-1,3-Dichloropropene	Halogen	57	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bromochloromethane	Halogen	57	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Chlorobenzene	Halogen	57	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,3-Dichlorobenzene	Halogen	57	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,2-Dichlorobenzene	Halogen	57	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,2,4-Trichlorobenzene	Halogen	57	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hexachlorobutadiene	Halogen	57	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

TABLE 45 VOC Annual Statistics at Simcoe (1997)

Unit = micrograms/m³

Compounds	Compound Class	No. of Samples	% Samples > DL	% Average Mass	PERCENTILES							Max.	Median	Mean	Std. Dev.
					5%	25%	75%	95%	Min.	90%	99%				
Ethane	Alkane	46	100.00	11.781	1.93	2.58	4.95	6.60	1.76	9.04	13.8	9.04	3.72	4.07	1.88
Propan-1-ol	Alcohol	46	100.00	8.808	2.41	2.59	2.82	2.99	2.16	3.55	2.66	2.71	2.66	2.71	0.24
Propane	Alkane	46	100.00	8.733	0.74	1.75	4.03	5.66	0.50	9.78	2.75	3.22	2.75	3.22	2.17
Butane	Alkane	46	100.00	6.243	0.57	0.99	3.01	3.75	0.40	9.36	2.16	2.35	2.16	2.35	1.66
Pentane	Alkane	46	100.00	5.164	1.60	1.66	1.84	1.96	1.37	2.19	1.77	1.78	1.77	1.78	0.16
Isopentane	Alkane	46	100.00	4.487	0.47	1.01	1.99	2.31	0.36	4.23	1.52	1.59	1.52	1.59	0.83
Acetylene	Alkyne	46	100.00	4.383	0.56	1.01	2.01	2.25	0.47	3.52	1.52	1.53	1.52	1.53	0.68
Toluene	Aromatic	46	100.00	3.641	0.23	0.60	1.36	2.05	0.14	18.19	0.92	1.47	0.92	1.47	2.63
Chloromethane	Halogen	46	100.00	3.303	0.88	0.92	1.06	1.14	0.75	1.25	0.98	1.00	0.98	1.00	0.11
Isobutane	Alkane	46	100.00	2.879	0.33	0.58	1.37	1.65	0.14	2.92	0.92	1.04	0.92	1.04	0.62
Ethylene	Alkane	46	100.00	2.815	0.23	0.53	1.19	1.45	0.13	5.56	0.90	0.99	0.90	0.99	0.86
Isobutene	Alkane	46	100.00	2.604	0.32	0.61	1.10	1.32	0.24	2.42	0.89	0.93	0.89	0.93	0.48
Propylene	Alkane	46	100.00	2.355	0.21	0.53	0.94	1.31	0.12	2.26	0.69	0.78	0.69	0.78	0.47
2-Methylpropane	Alkane	46	100.00	2.217	0.57	0.64	0.70	0.74	0.52	0.80	0.68	0.67	0.68	0.67	0.06
Carbon tetrachloride	Halogen	46	100.00	1.837	0.32	0.54	0.88	1.11	0.22	1.58	0.67	0.71	0.67	0.71	0.31
Benzene	Aromatic	46	100.00	1.641	0.44	0.53	0.60	0.64	0.44	0.66	0.56	0.55	0.56	0.55	0.06
1,1,1-Trichloroethane	Halogen	46	100.00	1.499	0.31	0.39	0.53	0.66	0.22	1.02	0.45	0.48	0.45	0.48	0.14
m and p-Xylene	Aromatic	46	100.00	1.317	0.28	0.33	0.47	0.52	0.26	1.66	0.38	0.43	0.38	0.43	0.21
1-Butene/Isobutene	Alkene	46	100.00	1.257	0.21	0.27	0.47	0.70	0.19	2.85	0.34	0.44	0.34	0.44	0.32
Propan-2-ol	Alcohol	46	100.00	1.126	0.14	0.24	0.48	0.65	0.10	1.48	0.35	0.40	0.35	0.40	0.27
Dichloromethane	Halogen	46	100.00	0.932	0.14	0.22	0.38	0.52	0.08	0.80	0.30	0.32	0.30	0.32	0.16
Hexane	Alkane	46	100.00	0.832	0.01	0.15	0.36	0.50	0.00	1.94	0.26	0.30	0.26	0.30	0.30
3-Methylpentane	Alkane	46	93.48	0.706	0.00	0.07	0.22	0.50	0.00	1.56	0.11	0.23	0.11	0.23	0.35
Propylene	Alkene	46	80.43	0.683	0.07	0.14	0.28	0.42	0.06	1.26	0.20	0.25	0.20	0.25	0.20
Naphthalene	Aromatic	46	100.00	0.674	0.09	0.16	0.26	0.39	0.04	0.64	0.21	0.23	0.21	0.23	0.12
Ethylbenzene	Aromatic	46	100.00	0.606	0.08	0.12	0.24	0.37	0.04	0.82	0.17	0.22	0.17	0.22	0.15
2,2,4-Trimethylpentane	Alkane	46	100.00	0.586	0.06	0.12	0.24	0.35	0.04	0.80	0.17	0.20	0.17	0.20	0.13
o-Xylene	Aromatic	46	100.00	0.556	0.11	0.12	0.22	0.25	0.09	0.78	0.14	0.17	0.14	0.17	0.06
1,2,4-Trimethylbenzene	Aromatic	46	100.00	0.497	0.08	0.10	0.21	0.30	0.04	0.52	0.14	0.18	0.14	0.18	0.10
Freon 114	Halogen	46	100.00	0.466	0.00	0.05	0.13	0.23	0.00	0.94	0.08	0.21	0.08	0.21	0.72
Heptane	Alkane	46	86.96	0.479	0.00	0.11	0.23	0.30	0.00	0.42	0.16	0.17	0.16	0.17	0.10
Cyclohexane	Alkane	46	89.13	0.467	0.08	0.10	0.20	0.22	0.06	0.37	0.14	0.16	0.14	0.16	0.07
3-Methylhexane	Alkane	46	100.00	0.456	0.06	0.10	0.18	0.25	0.04	0.86	0.14	0.17	0.14	0.17	0.13
Tetrachloroethylene	Halogen	46	100.00	0.418	0.06	0.07	0.16	0.18	0.06	0.28	0.10	0.12	0.10	0.12	0.06
Methylcyclopentane	Alkane	46	100.00	0.400	0.00	0.08	0.22	0.27	0.00	0.40	0.16	0.15	0.16	0.15	0.11
Bromomethane	Halogen	46	84.78	0.398	0.02	0.06	0.16	0.25	0.00	0.38	0.12	0.13	0.12	0.13	0.08
2-Methylhexane	Alkane	46	93.48	0.370	0.04	0.08	0.14	0.19	0.00	0.32	0.13	0.13	0.13	0.13	0.06
2,3-Dimethylpentane	Aromatic	46	100.00	0.365	0.04	0.08	0.14	0.21	0.02	0.38	0.11	0.13	0.11	0.13	0.07
3-Ethylhexane	Alkane	46	95.65	0.315	0.04	0.07	0.14	0.16	0.04	0.24	0.10	0.10	0.10	0.10	0.04
2,3-Dimethylbutane	Alkane	46	100.00	0.312	0.06	0.08	0.11	0.12	0.06	0.14	0.10	0.10	0.10	0.10	0.02
2,2-Dimethylbutane	Alkane	46	100.00	0.300	0.04	0.06	0.13	0.15	0.00	0.26	0.10	0.10	0.10	0.10	0.05
Chloroform	Halogen	46	97.83	0.299	0.00	0.00	0.12	0.31	0.00	0.63	0.04	0.10	0.04	0.10	0.15
cis-1,3-Dichloropropene	Alkene	46	65.00	0.277	0.00	0.00	0.00	0.08	0.00	1.46	0.00	0.06	0.00	0.06	0.23
Decane	Alkane	46	97.83	0.270	0.04	0.06	0.10	0.12	0.00	0.23	0.09	0.09	0.09	0.09	0.04
trans-1,3-Dichloropropene	Alkene	46	97.83	0.274	0.00	0.00	0.16	0.21	0.00	0.46	0.07	0.09	0.07	0.09	0.10
2-Methyl-2-butene	Alkene	46	54.35												
1-Hexene	Alkene	46													

TABLE 45 VOC Annual Statistics at Simcoe (1997)

Unit =micrograms/m³

Compounds Nomenclature	Compounded Class	N _o of Samples	% Samples >DL	% Average Mass	PERCENTILES					Max.	Median	Mean	Std. Dev.
					5%	25%	75%	95%	Min.				
Acetone	Alkane	46	95.65	0.254	0.03	0.06	0.10	0.14	0.00	0.29	0.08	0.09	0.03
Cyclopentane	Alkane	46	89.13	0.256	0.00	0.07	0.11	0.15	0.00	0.24	0.08	0.09	0.05
Octane	Alkane	46	95.65	0.257	0.04	0.06	0.10	0.15	0.00	0.24	0.08	0.09	0.05
Undecane	Alkane	46	95.65	0.246	0.03	0.06	0.10	0.12	0.00	0.20	0.08	0.08	0.04
1-Pentene	Alkene	46	89.13	0.225	0.00	0.05	0.10	0.11	0.00	0.44	0.08	0.09	0.07
Methylcyclohexane	Alkane	46	80.43	0.222	0.00	0.04	0.13	0.16	0.00	0.28	0.08	0.09	0.07
2,3,4-Trimethylpentane	Alkane	46	89.13	0.224	0.00	0.06	0.10	0.13	0.00	0.26	0.08	0.08	0.05
4-Ethyltoluene	Aromatic	46	100.00	0.223	0.03	0.05	0.08	0.12	0.02	0.22	0.07	0.08	0.04
Trichloroethylene	Halogen	42	100.00	0.209	0.03	0.05	0.10	0.14	0.02	0.22	0.07	0.08	0.05
2-Ethyltoluene	Aromatic	46	100.00	0.208	0.02	0.04	0.07	0.11	0.02	0.24	0.06	0.07	0.04
3-Methylpentane	Alkane	46	69.57	0.206	0.00	0.00	0.12	0.14	0.00	0.23	0.08	0.08	0.06
1,3,5-Trimethylbenzene	Aromatic	46	100.00	0.200	0.02	0.04	0.08	0.12	0.02	0.28	0.06	0.07	0.05
Dichloromethane	Halogen	46	93.48	0.199	0.01	0.03	0.10	0.12	0.00	0.14	0.04	0.06	0.04
2-Methylpentane	Alkane	45	73.33	0.188	0.00	0.00	0.10	0.18	0.00	0.22	0.07	0.08	0.06
Chloroethane	Halogen	46	82.61	0.184	0.00	0.03	0.08	0.11	0.00	0.17	0.04	0.06	0.04
Dodecane	Alkane	46	89.13	0.183	0.00	0.04	0.08	0.10	0.00	0.18	0.06	0.06	0.03
n-Propylbenzene	Aromatic	46	100.00	0.177	0.02	0.04	0.08	0.10	0.02	0.12	0.06	0.06	0.03
1,2-Dichloroethane	Halogen	46	97.83	0.175	0.02	0.03	0.08	0.08	0.00	0.10	0.05	0.05	0.02
cis-2-Pentene	Alkene	46	82.61	0.172	0.00	0.04	0.08	0.10	0.00	0.18	0.06	0.06	0.04
1,2,3-Trimethylbenzene	Aromatic	46	97.83	0.161	0.02	0.04	0.06	0.08	0.00	0.18	0.05	0.05	0.03
2,4-Dimethylpentane	Alkane	46	82.61	0.159	0.00	0.04	0.08	0.11	0.00	0.20	0.06	0.06	0.04
1,4-Dichlorobenzene	Aromatic	46	86.96	0.160	0.00	0.04	0.07	0.09	0.00	0.18	0.06	0.05	0.04
cis-2-Butene	Alkene	46	71.74	0.127	0.00	0.00	0.06	0.08	0.00	0.14	0.04	0.04	0.04
2,4-Dimethylbenzene	Alkane	46	73.91	0.122	0.00	0.01	0.08	0.10	0.00	0.12	0.04	0.04	0.04
2-Methyl-1-butene	Alkene	46	69.57	0.121	0.00	0.00	0.06	0.14	0.00	0.22	0.04	0.04	0.04
1,1-Dichloroethylene	Halogen	46	43.48	0.108	0.00	0.00	0.08	0.08	0.00	0.10	0.00	0.03	0.04
2,2-Dimethylpropane	Alkane	46	84.78	0.104	0.00	0.02	0.06	0.06	0.00	0.10	0.03	0.03	0.02
Bromobenzene	Halogen	42	95.24	0.101	0.01	0.02	0.06	0.06	0.00	0.06	0.03	0.03	0.02
1,4-Dichlorobenzene	Aromatic	46	95.65	0.099	0.01	0.02	0.04	0.06	0.00	0.06	0.04	0.03	0.02
Indane	Aromatic	46	95.65	0.098	0.01	0.02	0.04	0.06	0.00	0.08	0.03	0.03	0.02
Bromo-dichloromethane	Halogen	46	45.65	0.096	0.00	0.00	0.06	0.08	0.00	0.10	0.00	0.03	0.04
iso-Propylbenzene	Aromatic	46	100.00	0.090	0.02	0.02	0.04	0.04	0.01	0.08	0.03	0.03	0.01
trans-2-Butene	Alkene	46	47.83	0.080	0.00	0.00	0.06	0.08	0.00	0.12	0.00	0.03	0.03
Dibromochloromethane	Halogen	46	45.65	0.081	0.00	0.00	0.04	0.06	0.00	0.10	0.00	0.02	0.03
2,5-Dimethylbenzene	Alkane	46	65.22	0.076	0.00	0.00	0.04	0.06	0.00	0.15	0.03	0.03	0.03
trans-2-Pentene	Alkene	46	80.43	0.076	0.00	0.02	0.04	0.04	0.00	0.10	0.03	0.03	0.02
Styrene	Aromatic	40	40.00	0.075	0.00	0.00	0.05	0.11	0.00	0.22	0.00	0.03	0.05
trans-4-Methyl-2-pentene	Alkene	46	21.74	0.065	0.00	0.00	0.00	0.10	0.00	0.31	0.00	0.03	0.07
cis-1,3-Dimethylcyclohexane	Alkane	46	65.22	0.071	0.00	0.00	0.04	0.06	0.00	0.08	0.02	0.03	0.03
1,3-Butadiene	Alkene	46	45.65	0.071	0.00	0.00	0.04	0.06	0.00	0.14	0.00	0.02	0.03
1,1,2,2-Tetrachloroethane	Halogen	46	43.48	0.071	0.00	0.00	0.04	0.06	0.00	0.07	0.00	0.02	0.03
1-Methylcyclopentene	Alkene	46	71.74	0.068	0.00	0.00	0.04	0.04	0.00	0.07	0.02	0.02	0.02
trans-1,2-Dichloroethylene	Halogen	46	45.65	0.069	0.00	0.00	0.04	0.06	0.00	0.06	0.00	0.02	0.02
Cyclopentene	Alkene	41	58.54	0.067	0.00	0.00	0.04	0.06	0.00	0.08	0.02	0.02	0.02
1,1-Dichloroethane	Halogen	46	60.87	0.061	0.00	0.00	0.04	0.04	0.00	0.06	0.02	0.02	0.02
4-Methylpentane	Alkane	46	41.30	0.061	0.00	0.00	0.04	0.04	0.00	0.06	0.00	0.02	0.02
1-Methylcyclohexane	Alkane	46	39.13	0.055	0.00	0.00	0.04	0.07	0.00	0.11	0.00	0.02	0.03
		46	52.17	0.056	0.00	0.00	0.04	0.05	0.00	0.10	0.01	0.02	0.02

TABLE 45 VOC Annual Statistics at Simcoe (1997)

Unit =micrograms/m³

Compounds	Compound Class	No. of Samples	% Samples >DL	% Average Mass	PERCENTILES						Mean	Std. Dev.	
					5%	25%	75%	95%	Min.	Max.			Median
cis-3-Methyl-2-pentene	Alkene	46	21.74	0.052	0.00	0.00	0.02	0.04	0.00	0.22	0.00	0.01	0.04
2,2-Dimethylbutane	Alkane	46	36.96	0.052	0.00	0.00	0.02	0.04	0.00	0.15	0.00	0.02	0.03
cis-1,2-Dichloroethylene	Halogen	46	41.30	0.051	0.00	0.00	0.04	0.04	0.00	0.06	0.00	0.02	0.02
Ethylbenzene	Halogen	46	34.78	0.047	0.00	0.00	0.02	0.04	0.00	0.06	0.00	0.01	0.02
p-Cymene	Aromatic	46	36.96	0.045	0.00	0.00	0.02	0.05	0.00	0.09	0.00	0.01	0.02
Chlorobenzene	Halogen	42	47.62	0.038	0.00	0.00	0.03	0.04	0.00	0.04	0.00	0.02	0.02
1,3-Diethylbenzene	Aromatic	46	60.87	0.037	0.00	0.00	0.02	0.04	0.00	0.04	0.01	0.01	0.01
1,2-Dichloropropane	Halogen	46	19.57	0.037	0.00	0.00	0.00	0.05	0.00	0.08	0.00	0.01	0.02
2,2-Dimethylpropane	Alkane	46	52.17	0.035	0.00	0.00	0.02	0.04	0.00	0.06	0.01	0.01	0.03
cis-4-Methyl-2-pentene	Alkene	46	26.09	0.033	0.00	0.00	0.00	0.06	0.00	0.10	0.00	0.01	0.02
EDB	Halogen	46	19.57	0.034	0.00	0.00	0.00	0.06	0.00	0.08	0.00	0.01	0.03
trans-2-Octene	Alkene	46	23.91	0.034	0.00	0.00	0.00	0.05	0.00	0.12	0.00	0.01	0.01
sec-Butylbenzene	Aromatic	46	63.04	0.032	0.00	0.00	0.02	0.02	0.00	0.04	0.01	0.01	0.01
iso-Butylbenzene	Aromatic	46	58.70	0.031	0.00	0.00	0.02	0.02	0.00	0.04	0.01	0.01	0.01
trans-1,2-Dimethylcyclohexane	Alkane	46	39.13	0.028	0.00	0.00	0.02	0.03	0.00	0.06	0.00	0.01	0.02
n-Butylbenzene	Aromatic	46	47.83	0.024	0.00	0.00	0.02	0.02	0.00	0.04	0.00	0.01	0.01
2,2,5-Trimethylhexane	Alkane	46	17.39	0.021	0.00	0.00	0.00	0.04	0.00	0.06	0.00	0.01	0.02
1,2-Diethylbenzene	Aromatic	46	30.43	0.021	0.00	0.00	0.02	0.03	0.00	0.04	0.00	0.01	0.01
trans-2-Hexene	Alkene	46	39.13	0.020	0.00	0.00	0.02	0.02	0.00	0.04	0.00	0.01	0.01
1-Octene	Alkene	41	9.76	0.019	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.01	0.04
cis-2-Heptene	Alkene	46	6.52	0.019	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.01	0.03
1,1,2-Trichloroethane	Halogen	46	10.87	0.019	0.00	0.00	0.00	0.02	0.00	0.10	0.00	0.01	0.02
trans-1,4-Dimethylcyclohexane	Alkene	46	28.26	0.016	0.00	0.00	0.01	0.02	0.00	0.05	0.00	0.01	0.01
1-Heptene	Alkene	46	2.17	0.012	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.03
cis-1,4,1,3-Dimethylcyclohexane	Alkene	46	28.26	0.012	0.00	0.00	0.01	0.02	0.00	0.03	0.00	0.00	0.01
cis-2-Octene	Alkene	46	10.87	0.008	0.00	0.00	0.00	0.01	0.00	0.05	0.00	0.00	0.01
Vinylchloride	Halogen	46	10.87	0.007	0.00	0.00	0.00	0.01	0.00	0.04	0.00	0.00	0.01
trans-2-Heptene	Alkene	46	4.35	0.007	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.01
4-Methyl-1-pentene	Alkene	46	2.17	0.005	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.01
2-Ethyl-1-Butene	Alkene	46	19.57	0.004	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00
cis-2-Hexene	Alkene	46	6.52	0.004	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.01
1,4-Dichlorobutane	Halogen	46	2.17	0.004	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.01
1-Decene	Alkene	40	2.50	0.003	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.01
trans-3-Methyl-2-pentene	Alkene	46	4.35	0.003	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.01
3-Methyl-1-pentene	Alkene	46	2.17	0.002	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00
3,6-Dimethyloctane	Alkane	46	4.35	0.001	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00
2,2,3-Trimethylbutane	Alkane	46	2.17	0.000	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
Hexachlorobutadiene	Halogen	46	2.17	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,3-Dichlorobenzene	Halogen	46	2.17	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1-Butyne	Alkyne	46	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
trans-3-Heptene	Alkene	46	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cis-3-Heptene	Alkene	46	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1-Nonene	Alkene	35	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
tert-Butylbenzene	Aromatic	46	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hexylbenzene	Aromatic	46	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bromotrichloroethane	Halogen	46	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,2-Dichlorobenzene	Halogen	46	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,2,4-Trichlorobenzene	Halogen	46	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

TABLE 46 VOC Annual Statistics at Stouffville (1997)

Unit -micrograms/m³

Compounds	Compound Class	No. of Samples	% Samples > DL	% Average Mass	P E R C E N T I L E S							Max.	Median	Mean	Std. Dev.
					5%	25%	75%	90%	Min.	Max.	Median				
Ethane	Alkane	58	100.00	8.136	0.62	1.45	6.02	11.24	0.42	289.54	2.89	11.69	39.45		
Ethylene	Alkane	58	100.00	7.247	1.40	2.37	4.31	5.61	0.10	8.33	3.19	3.51	1.65		
Propane	Alkane	58	100.00	7.221	1.29	2.13	5.02	7.13	0.66	21.30	3.29	4.06	3.21		
Isobutylene	Alkane	58	100.00	6.616	0.69	1.50	5.31	10.45	0.50	244.50	2.41	8.77	32.31		
Propan-1-ol	Halogen	58	100.00	5.991	2.20	2.52	2.79	2.87	2.08	4.25	2.67	2.66	0.31		
Toluene	Aromatic	58	100.00	5.997	0.94	1.60	4.16	6.10	0.71	107.10	2.69	4.99	13.84		
Acetylene	Alkyne	58	100.00	4.109	0.74	1.30	2.62	3.76	0.51	6.87	2.14	2.17	1.16		
Pentane	Alkane	58	100.00	3.671	0.47	0.94	2.75	5.92	0.32	127.85	1.43	4.56	16.74		
Propan-1-ol	Halogen	55	100.00	3.606	1.53	1.64	1.79	1.85	1.50	1.96	1.72	1.72	0.12		
Isobutane	Alkane	58	100.00	3.305	0.44	0.78	2.17	6.06	0.32	53.16	1.27	3.51	8.77		
Ethylene	Alkane	58	100.00	3.171	0.58	1.01	2.09	2.91	0.42	5.71	1.42	1.66	0.99		
2-Methylpentane	Alkane	58	100.00	2.659	0.30	0.74	1.72	3.30	0.22	65.90	1.29	2.62	8.55		
m and p-Xylene	Aromatic	58	100.00	2.537	0.35	0.60	2.20	3.52	0.22	25.55	1.11	1.92	3.41		
Chlorobenzene	Halogen	58	100.00	2.295	0.87	0.97	1.06	1.10	0.75	1.25	1.02	1.01	0.09		
Benzene	Aromatic	58	100.00	1.933	0.35	0.68	1.33	1.71	0.30	19.16	0.96	1.36	2.44		
1-Bromo-1-chlorobenzene	Alkane	58	100.00	1.741	0.34	0.60	1.05	1.43	0.28	9.91	0.79	1.07	1.36		
Carbon tetrachloride	Halogen	58	100.00	1.537	0.56	0.64	0.72	0.74	0.56	0.82	0.68	0.67	0.06		
1,1,1-Trichloroethane	Halogen	58	100.00	1.314	0.49	0.54	0.62	0.67	0.46	0.77	0.59	0.59	0.07		
Hexane	Alkane	58	100.00	1.233	0.16	0.32	0.93	1.65	0.14	41.89	0.49	1.45	5.44		
Dichloromethane	Halogen	58	100.00	1.229	0.22	0.30	0.77	1.35	0.21	23.54	0.48	1.03	3.05		
Alkane	Alkane	58	100.00	1.183	0.20	0.30	0.84	1.46	0.14	43.69	0.52	1.46	5.69		
3-Methylpentane	Halogen	58	100.00	0.991	0.33	0.38	0.52	0.63	0.27	0.89	0.44	0.46	0.12		
Propan-2-ol	Alkane	58	100.00	0.961	0.21	0.31	0.65	1.06	0.11	2.18	0.42	0.56	0.41		
Propylene	Aromatic	58	100.00	0.899	0.14	0.23	0.66	0.98	0.10	9.84	0.42	0.67	1.28		
Ethylbenzene	Alkane	58	100.00	0.881	0.16	0.26	0.57	0.90	0.13	10.92	0.37	0.64	1.41		
2,2,4-Trimethylpentane	Aromatic	58	100.00	0.801	0.12	0.21	0.69	1.05	0.08	7.57	0.36	0.59	1.00		
o-Xylene	Aromatic	58	100.00	0.718	0.11	0.18	0.59	0.82	0.10	5.37	0.31	0.51	0.75		
1,2,4-Trimethylbenzene	Aromatic	58	100.00	0.698	0.13	0.23	0.45	0.63	0.07	1.82	0.28	0.38	0.30		
Tetrachloroethylene	Halogen	58	100.00	0.662	0.12	0.18	0.52	0.67	0.09	13.65	0.30	0.59	1.76		
3-Methylbenzene	Alkane	58	100.00	0.600	0.09	0.16	0.46	0.66	0.04	14.91	0.27	0.60	1.93		
2-Methylbenzene	Alkane	58	100.00	0.594	0.10	0.16	0.39	0.68	0.09	9.76	0.24	0.49	1.27		
Heptane	Alkane	58	100.00	0.573	0.08	0.15	0.42	0.68	0.06	21.58	0.25	0.71	2.80		
Methylcyclopentane	Alkane	58	100.00	0.561	0.08	0.12	0.33	0.86	0.07	28.66	0.17	0.86	3.75		
2-Methyl-2-butene	Alkane	58	100.00	0.497	0.08	0.12	0.37	0.65	0.06	16.75	0.22	0.59	2.18		
2,3-Dimethylbutane	Alkane	58	100.00	0.453	0.08	0.12	0.36	0.49	0.06	5.41	0.21	0.35	0.71		
3-Ethylbenzene	Aromatic	58	100.00	0.452	0.08	0.11	0.30	0.41	0.06	6.20	0.22	0.34	0.80		
2,3-Dimethylpentane	Alkane	58	100.00	0.411	0.06	0.10	0.28	0.38	0.04	3.45	0.16	0.26	0.45		
Decane	Alkane	58	93.10	0.409	0.00	0.08	0.27	0.52	0.00	1.56	0.15	0.24	0.28		
Naphthalene	Aromatic	58	100.00	0.404	0.11	0.12	0.22	0.34	0.09	0.28	0.18	0.18	0.05		
Propan-1-ol	Halogen	58	100.00	0.390	0.06	0.10	0.28	0.47	0.04	12.56	0.17	0.45	1.64		
Cyclopentane	Alkane	58	100.00	0.385	0.00	0.14	0.28	0.36	0.00	4.05	0.18	0.26	0.32		
1-Hexene	Alkane	58	86.21	0.364	0.04	0.10	0.24	0.37	0.02	2.35	0.14	0.22	0.32		
Undecane	Alkane	58	100.00	0.339	0.04	0.06	0.22	0.41	0.02	0.85	0.10	0.18	0.19		
Isoprene	Alkane	56	100.00	0.332	0.04	0.08	0.22	0.48	0.00	10.78	0.12	0.39	1.41		
cis-2-Pentene	Alkane	58	100.00	0.325	0.06	0.10	0.22	0.31	0.05	6.19	0.14	0.29	0.80		
2,2-Dimethylbutane	Alkane	58	100.00	0.299	0.04	0.08	0.20	0.32	0.00	4.04	0.13	0.24	0.54		
Methylcyclohexane	Alkane	58	96.55	0.299	0.04	0.08	0.20	0.32	0.00	4.04	0.13	0.24	0.54		
Alkane	Alkane	58	98.28	0.303	0.06	0.08	0.23	0.42	0.00	8.08	0.12	0.31	1.05		
1-Pentene	Alkane	58	100.00	0.299	0.06	0.10	0.20	0.33	0.04	4.73	0.14	0.24	0.61		
2,3,4-Trimethylpentane	Alkane	58	100.00	0.299	0.06	0.10	0.20	0.33	0.04	4.73	0.14	0.24	0.61		

TABLE 46 VOC Annual Statistics at Stouffville (1997)

Unit -micrograms/m³

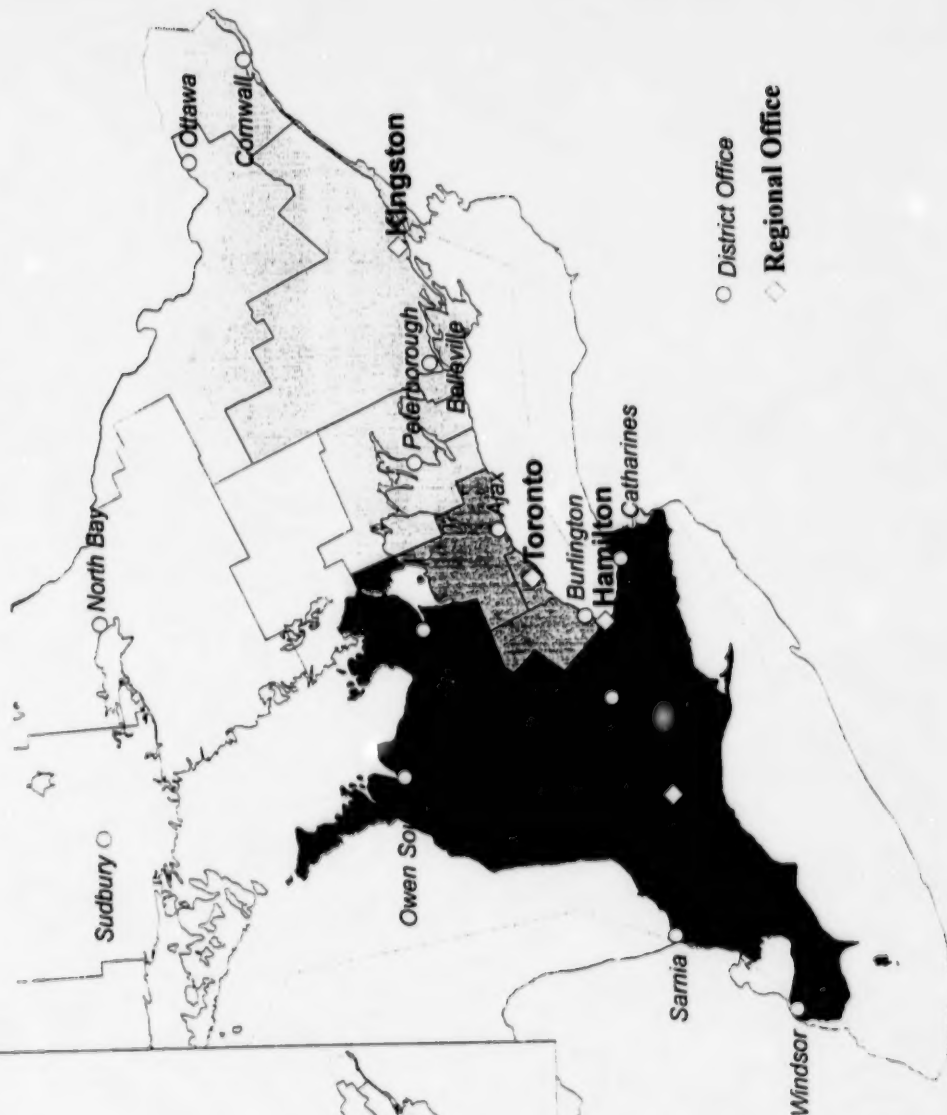
Compounds	Compound Class	No. of Samples	% Samples >DL	% Average Mass	PERCENTILES							Max.	Median	Mean	Std. Dev.
					5%	25%	75%	90%	Min.						
Bromochloroethane	Halogen	58	100.00	0.292	0.06	0.08	0.16	0.18	0.05	0.36	0.13	0.13	0.05		
Octane	Alkane	58	100.00	0.287	0.05	0.08	0.18	0.27	0.05	2.71	0.12	0.20	0.36		
cis-2-Butene	Alkene	58	96.55	0.282	0.03	0.06	0.21	0.48	0.00	9.84	0.10	0.36	1.30		
Nonane	Alkane	58	96.55	0.282	0.04	0.08	0.18	0.27	0.00	1.52	0.11	0.18	0.23		
3-Methylpentane	Alkane	58	86.21	0.277	0.00	0.06	0.21	0.37	0.00	5.76	0.14	0.25	0.75		
2-Methylpentane	Alkane	56	71.43	0.266	0.00	0.00	0.15	0.24	0.00	5.99	0.09	0.21	0.79		
Cyclohexane	Alkane	58	96.55	0.265	0.04	0.08	0.20	0.27	0.00	4.47	0.12	0.21	0.58		
trans-2-Butene	Alkene	58	91.38	0.257	0.00	0.06	0.18	0.44	0.00	9.10	0.10	0.34	1.21		
4-Ethyltoluene	Aromatic	58	100.00	0.251	0.05	0.07	0.19	0.26	0.04	2.65	0.12	0.19	0.34		
Triethylbenzene	Halogen	55	98.18	0.246	0.03	0.06	0.18	0.30	0.00	0.80	0.10	0.15	0.15		
1,3,5-Trimethylbenzene	Aromatic	58	100.00	0.237	0.04	0.06	0.19	0.28	0.02	2.18	0.11	0.17	0.29		
1,4-Dimethylbenzene	Aromatic	58	100.00	0.228	0.04	0.06	0.18	0.23	0.04	1.04	0.10	0.14	0.15		
Chloroform	Halogen	58	100.00	0.216	0.07	0.08	0.11	0.13	0.06	0.14	0.10	0.14	0.18		
2-Ethyltoluene	Aromatic	58	100.00	0.214	0.04	0.06	0.16	0.22	0.03	1.29	0.10	0.14	0.18		
2,4-Dimethylpentane	Alkane	58	94.83	0.209	0.02	0.06	0.16	0.23	0.00	4.72	0.10	0.20	0.61		
trans-2-Pentene	Alkene	58	100.00	0.203	0.02	0.04	0.12	0.23	0.01	14.73	0.07	0.38	1.93		
1,2,3-Trimethylbenzene	Aromatic	58	100.00	0.195	0.04	0.06	0.15	0.21	0.02	1.10	0.09	0.13	0.16		
Dodecane	Alkane	58	93.10	0.193	0.00	0.06	0.12	0.19	0.00	0.41	0.09	0.11	0.08		
1-Dodecane	Alkane	53	9.43	0.186	0.00	0.00	0.00	0.00	0.00	7.48	0.00	0.20	1.04		
n-Propylbenzene	Aromatic	58	100.00	0.181	0.04	0.05	0.13	0.17	0.03	1.71	0.08	0.13	0.22		
2-Methyl-1-butene	Alkene	58	87.93	0.181	0.00	0.03	0.14	0.21	0.00	10.98	0.08	0.28	1.43		
2,4-Dimethylbenzene	Alkene	58	93.10	0.179	0.00	0.06	0.13	0.20	0.00	3.06	0.08	0.15	0.39		
Chloroethane	Halogen	58	94.83	0.164	0.03	0.06	0.10	0.12	0.00	0.16	0.08	0.08	0.04		
2,5-Dimethylbenzene	Alkene	58	93.10	0.159	0.00	0.04	0.10	0.14	0.00	1.90	0.08	0.11	0.24		
Dibromomethane	Halogen	58	96.55	0.160	0.02	0.05	0.10	0.12	0.00	0.16	0.07	0.07	0.04		
Styrene	Aromatic	54	64.81	0.147	0.00	0.00	0.14	0.22	0.00	0.53	0.06	0.09	0.11		
1,3-Butadiene	Alkene	58	75.86	0.123	0.00	0.03	0.10	0.20	0.00	0.74	0.06	0.09	0.11		
1,4-Dichlorobenzene	Halogen	58	100.00	0.121	0.02	0.04	0.08	0.10	0.01	0.22	0.05	0.06	0.04		
1,2-Dichloroethane	Halogen	58	94.83	0.121	0.02	0.04	0.08	0.08	0.00	0.20	0.06	0.06	0.03		
Indane	Aromatic	58	100.00	0.114	0.02	0.04	0.08	0.11	0.02	0.68	0.05	0.07	0.09		
iso-Propylbenzene	Aromatic	58	100.00	0.111	0.02	0.04	0.07	0.08	0.02	0.43	0.05	0.06	0.06		
cis-1,3-Dimethylcyclohexane	Alkene	58	86.21	0.109	0.00	0.02	0.08	0.17	0.00	3.97	0.04	0.08	0.14		
1-Methylcyclopentane	Alkene	58	94.83	0.097	0.01	0.03	0.06	0.13	0.00	3.82	0.04	0.12	0.50		
p-Cymene	Aromatic	58	84.48	0.093	0.00	0.02	0.06	0.10	0.00	2.94	0.04	0.10	0.38		
Cyclopentane	Alkene	58	94.83	0.092	0.01	0.03	0.06	0.10	0.00	1.40	0.04	0.07	0.15		
2,2-Dimethylpropane	Alkane	58	91.38	0.089	0.00	0.03	0.06	0.08	0.00	0.38	0.04	0.04	0.03		
1,1-Dichloroethylane	Halogen	58	65.52	0.090	0.00	0.00	0.06	0.08	0.00	0.10	0.04	0.05	0.07		
4-Methyltoluene	Alkene	56	69.64	0.083	0.00	0.00	0.07	0.12	0.00	0.38	0.04	0.04	0.02		
Benzoform	Halogen	55	98.18	0.075	0.02	0.02	0.05	0.06	0.00	0.08	0.04	0.04	0.02		
Permethrin	Halogen	58	50.00	0.073	0.00	0.00	0.06	0.08	0.00	0.10	0.01	0.03	0.03		
Dibromochloromethane	Halogen	58	63.79	0.072	0.00	0.00	0.05	0.06	0.00	0.08	0.03	0.03	0.03		
Dibromochloroethane	Halogen	58	72.41	0.068	0.00	0.00	0.06	0.08	0.00	0.51	0.04	0.04	0.07		
1-Methylcyclohexane	Alkene	58	83.02	0.065	0.00	0.02	0.06	0.06	0.00	0.21	0.03	0.03	0.03		
Cyclohexane	Alkene	53	72.41	0.063	0.00	0.00	0.04	0.06	0.00	0.21	0.02	0.04	0.03		
1,1-Dichloroethane	Halogen	58	72.41	0.059	0.00	0.02	0.04	0.06	0.00	1.24	0.03	0.05	0.16		
1,3-Diethylbenzene	Aromatic	58	91.38	0.054	0.00	0.01	0.05	0.08	0.00	0.06	0.02	0.02	0.02		
2,2-Dimethylpentane	Alkene	58	75.86	0.055	0.00	0.00	0.04	0.06	0.00	0.68	0.00	0.05	0.13		
1,1,2,2-Tetrachloroethane	Halogen	58	56.90	0.054	0.00	0.00	0.00	0.15	0.00	0.68	0.00	0.05	0.13		
trans-4-Methyl-2-pentene	Alkene	58	24.14	0.052	0.00	0.01	0.04	0.07	0.00	3.12	0.02	0.08	0.41		

TABLE 46 VOC Annual Statistics at Stouffville (1997)

Unit = micrograms/m³

Compounds	Compound Class	No. of Samples	% Samples > DL	% Average Mean	PERCENTILES							Mean	Std. Dev.
					5%	25%	75%	95%	Min.	Max.	Median		
trans-1,2-Dimethylcyclohexane	Alkane	58	53.45	0.050	0.00	0.00	0.05	0.10	0.00	0.41	0.02	0.04	0.07
Benzylchloride	Halogen	55	60.00	0.049	0.00	0.00	0.05	0.06	0.00	0.06	0.03	0.03	0.02
2,2-Dimethylbutane	Alkane	58	68.97	0.047	0.00	0.00	0.03	0.04	0.00	0.33	0.02	0.03	0.05
n-Butylbenzene	Aromatic	58	82.76	0.046	0.00	0.01	0.04	0.06	0.00	0.24	0.02	0.03	0.04
cis-3-Methyl-2-pentene	Alkene	58	62.07	0.046	0.00	0.00	0.04	0.06	0.00	3.17	0.02	0.08	0.41
ETB	Halogen	58	39.66	0.045	0.00	0.00	0.04	0.06	0.00	0.08	0.00	0.02	0.03
trans-2-Octene	Alkene	58	43.10	0.045	0.00	0.00	0.05	0.08	0.00	0.47	0.00	0.04	0.07
trans-1,2-Dichloroethane	Halogen	58	55.17	0.045	0.00	0.00	0.04	0.05	0.00	0.06	0.02	0.02	0.02
cis-4-Methyl-2-pentene	Alkene	58	29.31	0.040	0.00	0.00	0.02	0.11	0.00	0.45	0.00	0.03	0.08
cis-1,2-Dichloroethane	Halogen	58	51.72	0.039	0.00	0.00	0.04	0.04	0.00	0.06	0.02	0.02	0.02
1,2-Dichloropropane	Halogen	58	37.93	0.037	0.00	0.00	0.03	0.06	0.00	0.08	0.00	0.02	0.02
sec-Butylbenzene	Aromatic	58	81.03	0.036	0.00	0.01	0.02	0.04	0.00	0.08	0.02	0.02	0.02
trans-1,4-Dimethylcyclohexane	Alkene	58	48.28	0.034	0.00	0.00	0.03	0.06	0.00	0.18	0.00	0.02	0.04
cis-2-Heptene	Alkene	58	20.69	0.034	0.00	0.00	0.00	0.08	0.00	0.13	0.00	0.02	0.03
iso-Butylbenzene	Aromatic	58	77.59	0.032	0.00	0.01	0.02	0.03	0.00	0.07	0.02	0.02	0.01
1,1,2-Trichloroethane	Halogen	58	32.76	0.031	0.00	0.00	0.03	0.05	0.00	0.18	0.00	0.02	0.03
Ethylbenzene	Halogen	58	41.38	0.029	0.00	0.00	0.03	0.04	0.00	0.06	0.00	0.01	0.02
2,2,5-Trimethylhexane	Alkane	58	34.48	0.027	0.00	0.00	0.03	0.06	0.00	0.08	0.00	0.02	0.02
1-Heptene	Alkene	55	5.45	0.024	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.01	0.04
1,2-Diethylbenzene	Aromatic	58	55.17	0.022	0.00	0.00	0.02	0.03	0.00	0.06	0.01	0.01	0.01
trans-3-Methyl-2-pentene	Alkene	58	29.31	0.022	0.00	0.00	0.03	0.06	0.00	2.37	0.00	0.06	0.31
cis-1,4+1,3-Dimethylcyclohexane	Alkene	58	44.83	0.022	0.00	0.00	0.02	0.05	0.00	0.40	0.00	0.02	0.06
cis-2-Octene	Alkene	58	18.97	0.021	0.00	0.00	0.00	0.05	0.00	0.22	0.00	0.01	0.04
3-Methyl-1-pentene	Alkene	58	25.86	0.019	0.00	0.00	0.02	0.06	0.00	0.10	0.00	0.01	0.03
3,6-Dimethylcyclohexane	Alkene	58	37.93	0.019	0.00	0.00	0.02	0.04	0.00	0.20	0.00	0.02	0.04
cis-2-Heptene	Alkene	58	36.21	0.019	0.00	0.00	0.02	0.05	0.00	2.54	0.00	0.06	0.33
1-Octene	Alkene	50	22.00	0.015	0.00	0.00	0.00	0.04	0.00	0.14	0.00	0.01	0.03
2-Ethyl-1-Butene	Alkene	58	39.66	0.014	0.00	0.00	0.01	0.03	0.00	0.15	0.00	0.01	0.02
1-Norbornene	Alkene	46	17.39	0.013	0.00	0.00	0.00	0.05	0.00	0.08	0.00	0.01	0.02
cis-3-Heptene	Alkene	55	3.64	0.012	0.00	0.00	0.00	0.00	0.00	0.61	0.00	0.01	0.08
4-Methyl-1-pentene	Alkene	58	18.97	0.011	0.00	0.00	0.00	0.04	0.00	0.07	0.00	0.01	0.02
trans-2-Heptene	Alkene	58	32.76	0.011	0.00	0.00	0.02	0.02	0.00	0.03	0.00	0.01	0.01
Vinylchloride	Halogen	58	29.31	0.011	0.00	0.00	0.02	0.02	0.00	0.04	0.00	0.01	0.01
tert-Butylbenzene	Aromatic	58	15.52	0.005	0.00	0.00	0.00	0.01	0.00	0.04	0.00	0.00	0.01
2,2,3-Trimethylbutane	Alkene	58	15.52	0.004	0.00	0.00	0.00	0.02	0.00	0.04	0.00	0.00	0.01
1-Butyne	Alkyne	58	5.17	0.003	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.01
trans-3-Heptene	Alkene	57	8.77	0.001	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
cis-1,3-Dichloropropene	Halogen	58	1.72	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hexylbenzene	Aromatic	58	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
trans-1,3-Dichloropropene	Halogen	58	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bromobis(benzene)	Halogen	58	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Chlorobenzene	Halogen	58	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,4-Dichlorobenzene	Halogen	58	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,3-Dichlorobenzene	Halogen	58	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,2-Dichlorobenzene	Halogen	58	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,2,4-Trichlorobenzene	Halogen	58	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hexachlorobenzene	Halogen	58	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

MAP1 Location of Provincial Regional Boundaries (1997)



- Regions**
- Central
 - West Central
 - Southwestern
 - Northern
 - Eastern

- District Office
- ◇ Regional Office

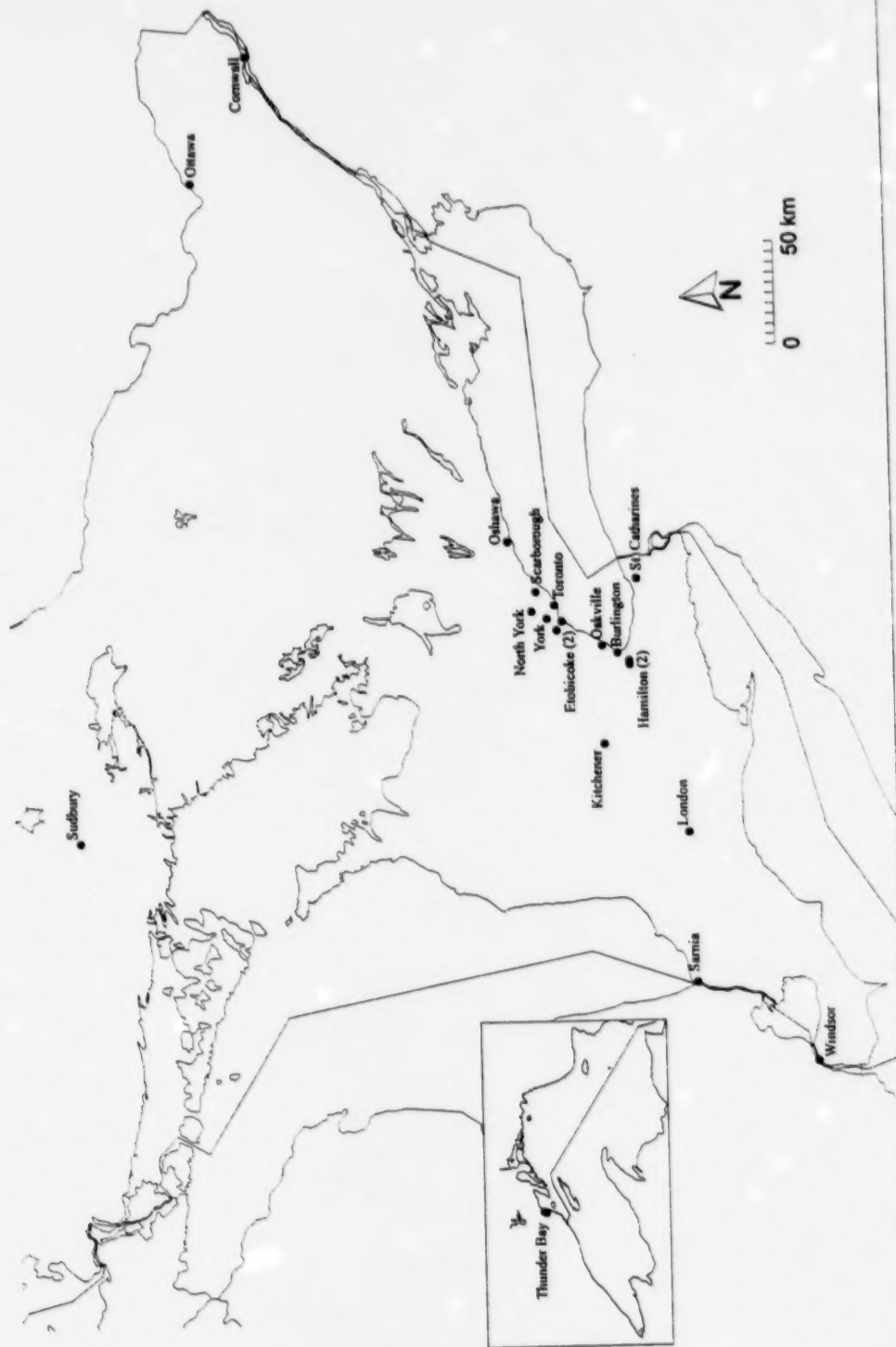
**MAP 3 Location of Provincial Continuous SP (as COH)
Air Monitoring Stations (1997)**



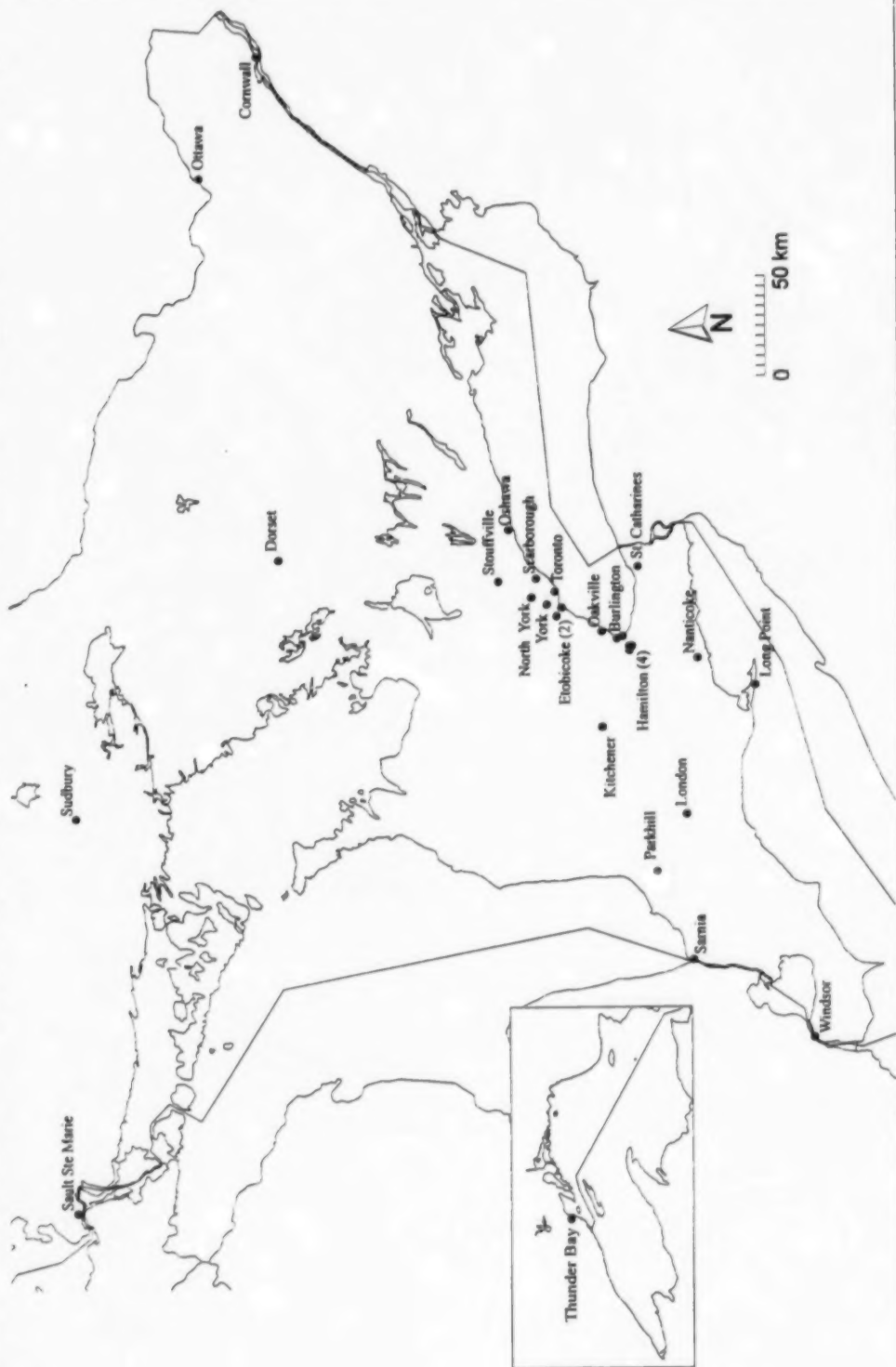
MAP4 Location of Provincial Continuous TRS Air Monitoring Stations (1997)



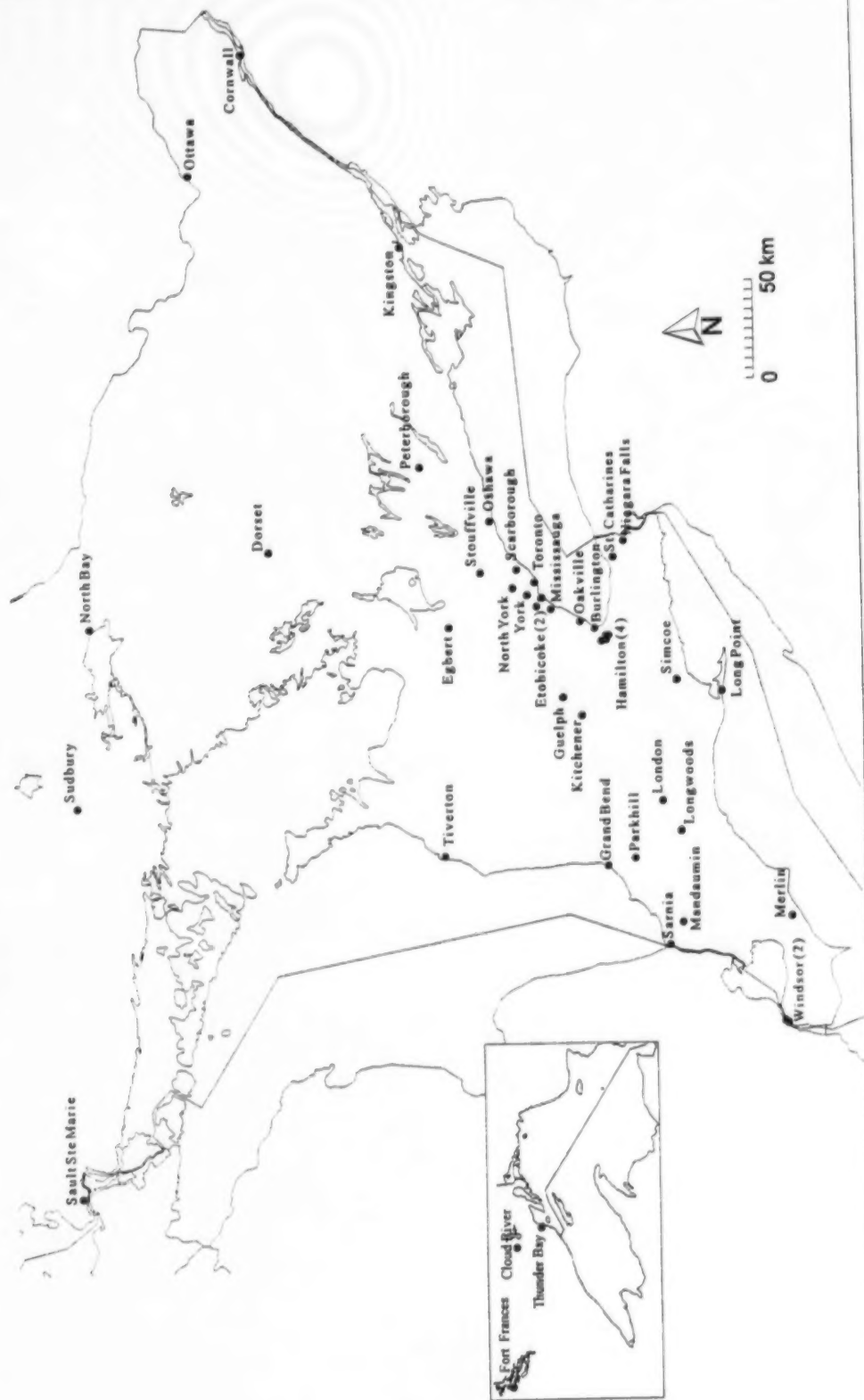
MAP5 Location of Provincial Continuous CO Air Monitoring Stations (1997)



MAP6 Location of Provincial Continuous NO₂ Air Monitoring Stations (1997)



MAP7 Location of Provincial Continuous O₃ Air Monitoring Stations (1997)



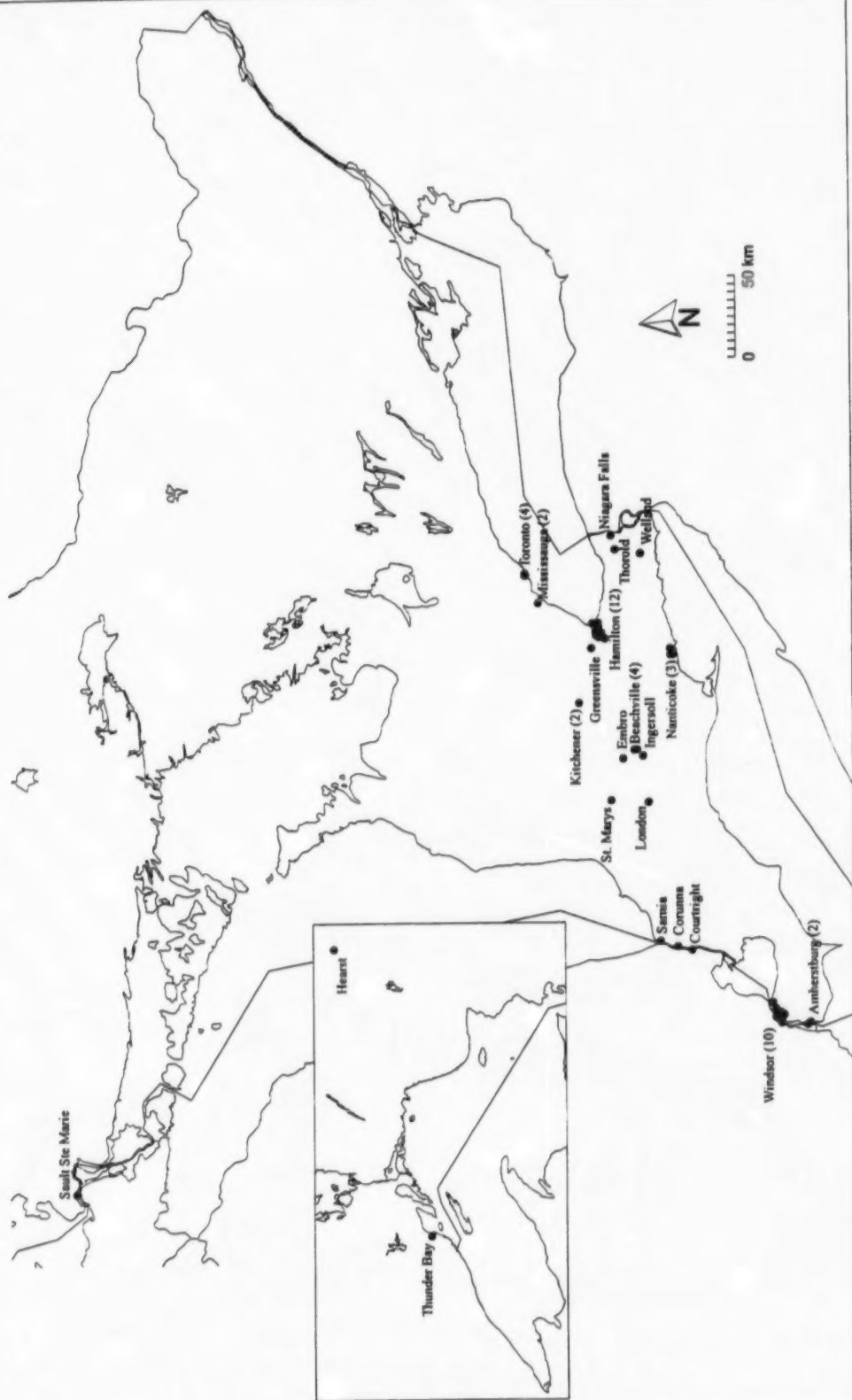
MAP8 Location of Provincial Continuous $PM_{10/2.5}$ Air Monitoring Stations (1997)



Map9 Location of Provincial Continuous AQI Air Monitoring Stations (1997)



MAP10 Location of Provincial 24-Hour TSP Air Monitoring Stations (1997)



MAP11 Location of Provincial 24-Hour PM₁₀ Air Monitoring Stations (1997)



MAP12 Location of Provincial Continuous MET Air Monitoring Stations (1997)

